

Flora of Mongolia: annotated checklist of native vascular plants

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Abstract

In this study, we critically revised and updated the checklist of native vascular plants of Mongolia. The checklist comprises 3,041 native vascular plant taxa (2,835 species and 206 infraspecific species) from 653 genera and 111 families, including 7 lycophytes, 41 ferns, 21 gymnosperms, and 2,972 angiosperms. In the angiosperms, we identified the 14 families with the greatest species richness, ranging from 50 to 456 taxa. Species endemism is also noted here; 102 taxa are endemic to Mongolia, and 275 taxa are sub-endemic that co-occur in adjacent countries. Since 2014, a total of 14 taxa have been described new to

science based on morphological evidences. Moreover, five genera and 74 taxa were newly added to the flora of Mongolia. Based on our critical revisions, names of three families, 21 genera, and 230 species have been changed in comparison to the previous checklist, “Conspectus of the vascular plants of Mongolia” (2014).

Keywords

Checklist, flora of Mongolia, native taxa, vascular plants

Introduction

Mongolia is located in the mid-latitude (between 41°35'N–52°09'N and 87°44'E–119°56'E), between Russia and China, covering approximately 1.6 million km², roughly equivalent to the size of western and central Europe. The flora of Mongolia is comprised of native species of different origins including boreal, steppe, desert, and mountainous elements of vegetation (Hilbig 1995; Gunin et al. 1999). The country is divided into sixteen phytogeographical regions which have various vegetation types (Grubov and Yunatov 1952), namely, alpine steppe, forest, meadow steppe, typical steppe, desert steppe, and desert (Gunin et al. 1999; Baasanmunkh et al. 2021a). Mongolia has a significant amount of temperate grasslands and semi-arid desert (Gunin et al. 1999; Wesche et al. 2016), which cover about 80% of the country's area (Pfeiffer et al. 2020). Overall, the species richness of vascular plants in Mongolia is not particularly high compared to other countries in Asia (Du et al. 2020; Li et al. 2020; Wang et al. 2020). However, Mongolia has the world's largest intact grassland with respect to its biodiversity (Batsaikhan et al. 2014; Hurka et al. 2019), which has great importance for the preservation of native vascular plants.

A brief history of listing of the flora of Mongolia and recent taxonomic revisions

Historically, floristic studies have been very thoroughly conducted in this country, although recent updates are continuously being made. The first checklist of vascular plants included 1,897 species belonging to 555 genera and 97 families (Grubov 1955). Then, Grubov (1982) updated the checklist of vascular plants, which included 2,239 taxa from 599 genera and 103 families, with an identification key and information on their regional distribution and representative habitats. Later, Gubanov (1996) published a checklist with 2,823 higher plant species from 662 genera and 128 families, including notes on their regional distribution. More recently, Urgamal et al. (2014) updated the families of vascular flora according to APG III, with a total of 3,127 taxa that belong to 683 genera and 112 families. Since 2009, nine volumes with selected families have been published by Mongolian botanists, including Cyperaceae (Nyambayar 2009a), Apiaceae to Cornaceae (Urgamal 2009), Huperziaceae to Ephedraceae (Ulziikhutag et al. 2015), Asteraceae (Dariimaa 2014, 2021; Dariimaa and Saruul 2017), Ceratophyllaceae to Zygophyllaceae (Urgamal et al. 2020), Amaranthaceae s.l. (incl. Chenopodiaceae) (Tungalag 2020), Nymphaeaceae to Asphodelaceae (Urgamal et al. 2021).

Additionally, several families and genera have been revised in recent years. For example, a new checklist of the Brassicaceae family, the fifth-largest family in the country, was provided by German (2015). Taxonomic notes and checklists of *Aquilegia* L., *Stipa* L., and *Primula* L. were compiled by Erst et al. (2016), Zhao et al. (2019) and Baasanmunkh et al. (2020a), respectively. Recently, Troshkina (2021) revised and updated Geraniaceae in Mongolia. Baasanmunkh et al. (2021b) compiled a checklist of Orchidaceae, which included notes on their species richness and conservation status. The families Menyanthaceae and Nymphaeaceae were also revised by Baasanmunkh et al. (2022a). Additionally, some thorough regional floristic works were published: for the Khangai (Biazrov et al. 1989) and the Dzungarian Gobi regions (Baasanmunkh et al. 2021a). Moreover, an updated checklist of endemic plant species was recently provided by Baasanmunkh et al. (2021c), which comprises 102 taxa (95 species, 5 subspecies, and 2 varieties) from 43 genera and 19 families in the flora of Mongolia.

New additions to the flora of Mongolia

Since Urgamal et al. (2014), 13 new species and one infraspecific taxon from Mongolia have been described as new to science (Nobis 2014; Erst et al. 2015, 2016; Kechaykin and Kutsev 2015; Yurtseva et al. 2016; Alexeeva 2018; Gundegmaa and Kechaykin 2018; Ovczinnikova 2019a, 2020; Pyak and Pyak 2019; Zhao et al. 2019; He et al. 2020; Pyak et al. 2020). Many new records of vascular plants have also been reported (Nobis et al. 2014, 2019a; Doronkin et al. 2015; Urgamal et al. 2016, 2019; Baasanmunkh et al. 2019a, b, c, 2020a, b, 2021b, d; Bazarragchaa et al. 2019; Erst et al. 2019; Ovczinnikova 2019b; Knyazev 2020; Shiga et al. 2020; Yano et al. 2021), including five genera new to the country, i.e. *Matthiola* W.T.Aiton, Brassicaceae (German 2015), *Onoclea* L., Onocleaceae (Doronkin et al. 2015), *Aldrovanda* L., Droseraceae (Shiga et al. 2020), *Hydrilla* L., Hydrocharitaceae (Shiga et al. 2020), and *Arctium* L., Asteraceae (Javzandolgor et al. 2021). Additionally, some genera previously listed by Urgamal et al. (2014) were omitted from Mongolian flora based on recent studies. In particular, the genus *Epipactis* Zinn. (Orchidaceae), for example, had two species that have been proven absent in the country due to the inaccurate location written on the herbarium specimens (Baasanmunkh et al. 2021b). On the other hand, some genera were not listed in Urgamal et al. (2014); for example, the genus *Phyllodoce* Salisb. (Ericaceae) was found in northern Mongolia by Oyunmaa and de Priest (2011). Furthermore, representatives of some genera, which are listed in the flora of Mongolia (Gubanov 1996; Urgamal et al. 2014), have been revised in recent studies (Podlech and Zarre 2013; Sukhorukov et al. 2013, 2019; Wang et al. 2014; Global Carex Group 2015; Duan et al. 2016; Drew et al. 2017; Kosachev 2017; Moore and Dillenberger 2017; Nosov et al. 2017; Pimenov 2017; Wiegler et al. 2017; Boltenkov 2018; Gillespie et al. 2018; Madhani et al. 2018; Sinitsyna et al. 2018; Zhang et al. 2018; Barberá et al. 2019, 2020; Nobis et al. 2019b; Sramkó et al. 2019; Akan et al. 2020; Espu 2020; Friesen et al. 2020; Murakami et al. 2020; Nesom 2020; Ren et al. 2020; Zaika et al. 2020; Al-Shehbaz 2021; Al-Shehbaz et al. 2021; Liu et al. 2021).

Necessity to update the list of flora of Mongolia

In 2016, the orders and families of flowering plants were updated by the APG IV (2016). Similarly, a new classification of ferns and lycophytes was provided for the first time (PPG I 2016). Given the recent updates to the international plant classification system, as well as a number of recent publications that identify new species and records and their distribution in Mongolia, there is a pressing need to revise and provide an updated list of the floristic diversity. Therefore, our study aims to present a thoroughly revised checklist of Mongolian native vascular flora that comprises the up-to-date names of all species, genera, and families, by conducting comparisons to the latest checklist, *Conspectus of Vascular Plants of Mongolia* by Urgamal et al. (2014) and earlier studies by Grubov (1982) and Gubanov (1996).

Materials and methods

The systematic order and taxonomic circumscription of the families is based on the following classifications: Ferns and Fern Allies by PPG I (2016), Gymnosperms by Christenhusz et al. (2011), and Angiosperms by APG IV (2016). The names of accepted genera and species mostly follow Govaerts et al. (2021), which is currently maintained by Plants of the World Online (POWO 2021). Additionally, we reference recently published taxonomic revisions of certain families and genera. The authorship of species, genera and families is given after the International Plant Names Index (IPNI 2021); each species is provided with the author and respective publication as a reference. The name changes and most common synonyms, compared to the previous checklist, are also provided. Species endemism is given after Baasanmunkh et al. (2021c). Sub-endemic species are those that have also been found in at least one other country outside Mongolia, such as China, Kazakhstan, or Russia. For each species, we examined representative occurrence records based on the Global Biodiversity Information Facility (GBIF 2021, <https://www.gbif.org/>). We also compiled the phytogeographical regional distribution of all species, because species distribution is important information for species identification. The main herbaria for Mongolian flora (ALTB, LE, MW, MHA, NS, NSK, OSBU, TK, UBA, and UBU; acronyms follow Thiers 2021), Virtual Guide to the Flora of Mongolia (Rilke et al. 2012; Zemmrch et al. 2013; <https://floragreif.uni-greifswald.de/floragreif/>), and all literature data for the species' regional distribution, have been checked and studied. The regional distribution of the taxa mostly follows Gubanov (1996), Urgamal et al. (2014), German (2015), and Baasanmunkh et al. (2021a). In addition to these sources, we used a revision of Baasanmunkh et al. (2022b), where numerous species were added or excluded from some phytogeographical regions. Lastly, the checklist comprises only native species, thus non-native taxa are not included and should be addressed in a future publication.

Results

The current checklist comprises 3,042 native vascular plant taxa (including 2,891 species, 116 subspecies, 29 varieties, and 12 nothospecies), belonging to 653 genera and 111 families (Table 1, Fig. 1). The updated checklist is divided into four major taxonomic groups: lycophytes (2 families and 4 genera), ferns and fern allies (12 families and 17 genera), gymnosperms (3 families and 6 genera), and angiosperms (94 families and 626 genera) (see Table 1 for detailed numbers of taxa). Among these, angiosperms comprise 2,979 taxa, which constitute 97% of Mongolian flora (Table 1). We cross-checked the occurrence of each taxon using GBIF (2021), which includes occurrence data for 2,249 taxa (73% of Mongolian flora).



Figure 1. Species richness of genera (≥ 24 taxa) and families (≥ 57 taxa) of vascular flora of Mongolia. The names of only the most species-rich genera and families are shown.

Table 1. Number of native Mongolia vascular plant taxa in each taxonomic group.

Major taxonomic groups	Family	Genus	Taxon
Lycophytes	2	4	7
Ferns and fern allies	12	17	41
Gymnosperms	3	6	21
Angiosperms	94	627	2,972
Total	111	653	3,041

Table 2. The species richness of the total, endemic, and sub-endemic vascular plants of each phytogeographical region of Mongolia.

Region number	Name of the phytogeographical regions	Taxon	Endemic	Sub-endemic
1	Khuvsgul	1,054	7	63
2	Khentei	1,236	6	48
3	Khangai	1,514	27	87
4	Mongolian Dauria	1,198	6	54
5	Foothills of Great Khyangan	793	3	24
6	Khovd	1,011	10	68
7	Mongolian Altai	over 1400	47	114
8	Middle Khalkh	777	4	49
9	East Mongolia	952	3	50
10	Depression of Great Lakes	882	16	60
11	Valley of Lakes	466	5	39
12	East Gobi	462	2	57
13	Gobi Altai	865	16	76
14	Dzungarian Gobi	913	20	58
15	Transaltai Gobi	356	8	40
16	Alashan Gobi	262	2	43

There are 14 families with a high species richness (≥ 9 genera and ≥ 57 taxa): Asteraceae (85 genera and 456 taxa), Fabaceae (24 and 328), Poaceae (58 and 229), Rosaceae (28 and 168), Ranunculaceae (20 and 156), Brassicaceae (51 and 138), Cyperaceae (10 and 130), Lamiaceae (22 and 103), Amaranthaceae (30 and 94), Caryophyllaceae (20 and 97), Boraginaceae (24 and 78), Apiaceae (36 and 66), Polygonaceae (11 and 63), and Orobanchaceae (9 and 57) (Fig. 1). The remaining 97 families comprise a smaller set of taxa. At the genus level, 14 genera represent a high species richness (≥ 24 taxa): *Astragalus* L. (127 taxa), *Artemisia* L. (103), *Carex* L. (99), *Oxytropis* DC. (97), *Potentilla* L. (75), *Saussurea* DC. (55), *Taraxacum* F.H.Wigg. (53), *Allium* L. (50), *Salix* L. (42), *Ranunculus* L. (41), *Pedicularis* L. (36), *Poa* L. (28), *Viola* L. (27), and *Silene* L. (24) which is shown in Fig. 1.

In this study, a total of 275 sub-endemic taxa are provided which account for 9% of the total species of flora of the country. Among these, Fabaceae (74 taxa) show the highest number of sub-endemic taxa along with Asteraceae (60 taxa), Brassicaceae (23 taxa), Poaceae (18 taxa), and Amaranthaceae (9 taxa). The highest number of sub-endemic taxa were found in the Mongolian Altai (114 taxa) followed by Khangai (87 taxa), Gobi-Altai (76 taxa), Khovd (68 taxa), Khuvsgul (63 taxa), and the Depression of Great Lakes (60 taxa). The remaining ten regions have between 24 and 58 sub-endemic taxa (Table 2).

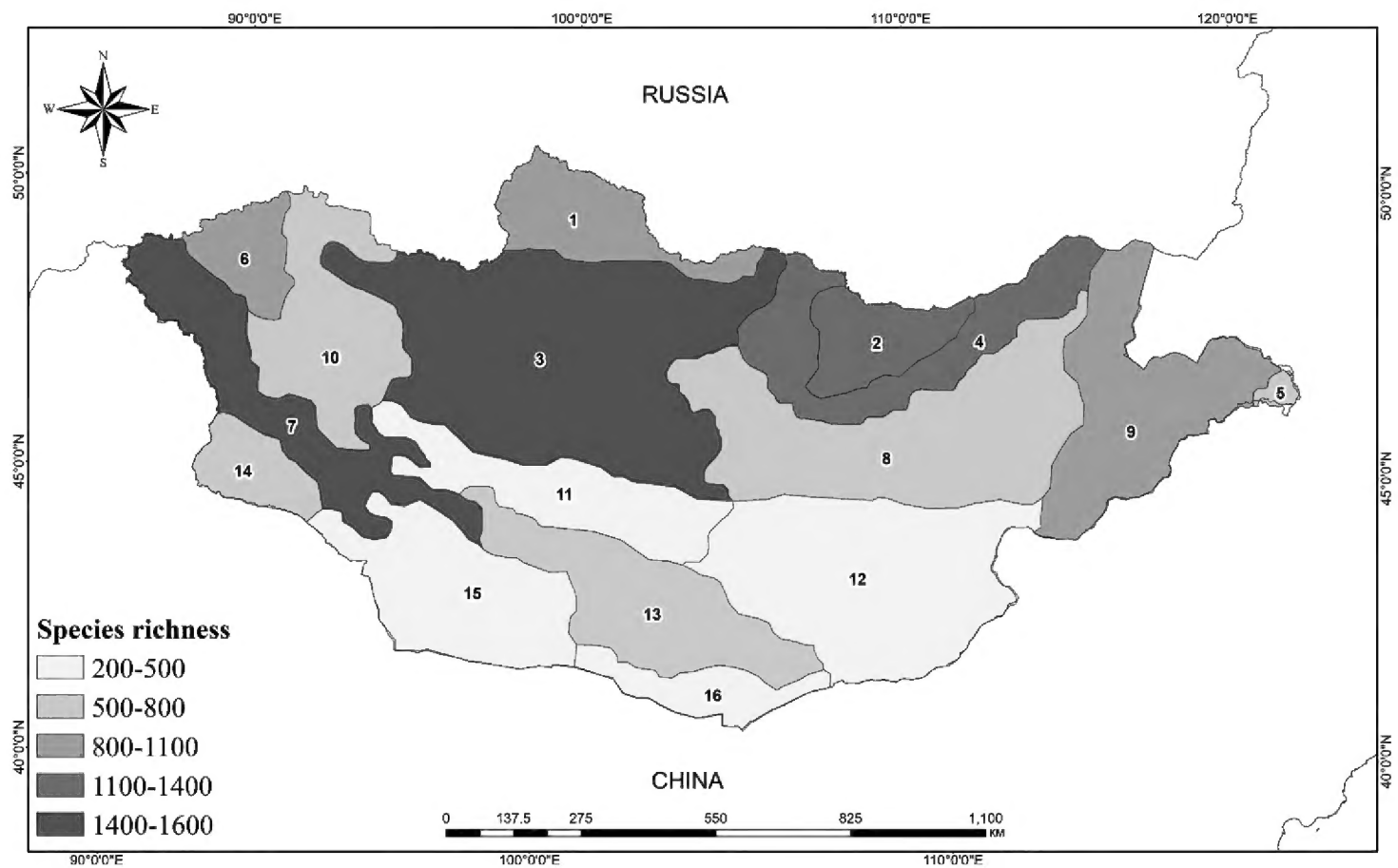


Figure 2. The species richness of native vascular plants of each phytogeographical region in Mongolia (1 Khuvsgul 2 Khentei 3 Khangai 4 Mongolian Dauria 5 Foothills of Great Khyangan 6 Khovd 7 Mongolian Altai 8 Middle Khalkh 9 East Mongolia 10 Depression of Great Lakes 11 Valley of Lakes 12 East Gobi 13 Gobi Altai 14 Dzungarian Gobi 15 Transaltai Gobi 16 Alashan Gobi).

Based on the species distribution across the 16 phytogeographical regions, six regions with high species richness (over 1,000 taxa) were identified: the Mongolian Altai (more than 1,400 taxa), Khangai (1,514 taxa), Khentei (1,236 taxa), Mongolian Dauria (1,118 taxa), Khuvsgul (1,054 taxa), and Khovd (1,011 taxa). The remaining ten regions have between 262 and 952 taxa (Table 2, Fig. 2).

In this study, we primarily excluded non-native species, including archeophytes that were listed in the previous checklist of Mongolia by Urgamal et al. (2014). As a result, 59 plant taxa found in Mongolia are considered non-native, including the families Cannabaceae (*Cannabis sativa* L.) and Portulacaceae (*Portulaca oleracea* L.). Several taxa were found to be archeophytes, which were introduced in “ancient” times and became naturalized as part of the native flora (a full list is given in Table 3).

Discussion

We revised the checklist of Mongolian vascular plants provided by Urgamal et al. (2014), which included 3,127 taxa, belonging to 683 genera and 112 families. Because the list comprised both native and non-native taxa, we first sorted non-native taxa out to make our study comparable. There were 3,069 native taxa from 682 genera and 110 families listed by Urgamal et al (2014) and the current checklist has been shortened and comprises 3,041 native vascular plant taxa from 653 genera and 111 families. Since

Table 3. List of non-native taxa that were included in the previous checklist of Mongolian flora but are excluded from this checklist.

No	Taxon name	No	Taxon name
	Amaranthaceae		Fabaceae
1	<i>Amaranthus albus</i> L.	30	<i>Lathyrus oleraceus</i> Lam.
2	<i>Amaranthus blitoides</i> S.Watson	31	<i>Lathyrus sativus</i> L.
3	<i>Amaranthus cruentus</i> L.	32	<i>Lotus corniculatus</i> L.
4	<i>Amaranthus retroflexus</i> L.	33	<i>Medicago sativa</i> L.
	Apiaceae	34	<i>Melilotus albus</i> Medik.
5	<i>Anethum graveolens</i> L.	35	<i>Ornithopus perpusillus</i> L.
6	<i>Eryngium planum</i> L.	36	<i>Trigonella caerulea</i> (L.) Ser.
7	<i>Pastinaca sativa</i> L.	37	<i>Vicia angustifolia</i> L.
	Asteraceae	38	<i>Vicia faba</i> L.
8	<i>Cichorium intybus</i> L.	39	<i>Vicia sativa</i> L.
9	<i>Sonchus oleraceus</i> L.	40	<i>Vicia sepium</i> L.
10	<i>Xanthium orientale</i> L.		Malvaceae
11	<i>Xanthium strumarium</i> L.	41	<i>Hibiscus trionum</i> L.
	Brassicaceae		Plantaginaceae
12	<i>Berteroa incana</i> (L.) DC.	42	<i>Veronica peregrina</i> L.
13	<i>Brassica campestris</i> L.		Poaceae
14	<i>Brassica juncea</i> (L.) Czern.	43	<i>Avena fatua</i> L.
15	<i>Bunias orientalis</i> L.	44	<i>Avena sativa</i> L.
16	<i>Camelina caucasica</i> (Sinskaya) Vassilcz.	45	<i>Cenchrus americanus</i> (L.) Morrone
17	<i>Camelina sativa</i> (L.) Crantz	46	<i>Chloris virgata</i> Sw.
18	<i>Eruca sativa</i> Mill.	47	<i>Dactylis glomerata</i> L.
19	<i>Guenthera persica</i> (Boiss. & Hohen.) D.A.German	48	<i>Hordeum aegiceras</i> Royle ex Walp.
20	<i>Neslia paniculata</i> (L.) Desv.	49	<i>Hordeum distichon</i> L.
21	<i>Raphanus raphanistrum</i> L.	50	<i>Hordeum vulgare</i> L.
22	<i>Sinapis arvensis</i> L.	51	<i>Panicum miliaceum</i> L.
23	<i>Sisymbrium altissimum</i> L.	52	<i>Panicum miliaceum</i> subsp. <i>rudera</i> le (Kitag.) Tzvelev
24	<i>Sisymbrium volgense</i> M.Bieb.	53	<i>Secale cereale</i> L.
	Cannabaceae	54	<i>Setaria pumila</i> Roem. & Schult.
25	<i>Cannabis sativa</i> L.	55	<i>Setaria viridis</i> (L.) P.Beauv.
	Caryophyllaceae	56	<i>Triticum aestivum</i> L.
26	<i>Agrostemma githago</i> L.		Polygonaceae
27	<i>Gypsophila vaccaria</i> (L.) Sm.	57	<i>Fagopyrum esculentum</i> Moench
28	<i>Silene banksia</i> (Meerb.) Mabb.	58	<i>Fagopyrum tataricum</i> (L.) Gaertn.
	Convolvulaceae		Portulacaceae
29	<i>Calystegia silvatica</i> (Kit.) Griseb.	59	<i>Portulaca oleracea</i> L.

Grubov (1955) provided the first checklist, more than 1,150 species have been added to the flora of Mongolia. In this study, the family Brassicaceae is based upon the work of German (2015), who recognized 141 species from 59 genera which significantly differs from the 160 species and 61 genera provided by Urgamal et al. (2014); this is because of misidentification of species and records from outside Mongolia being included in the latter publication. Since Urgamal et al. (2014), 14 taxa have been described as new to science based on morphological evidence, the majority of which are from Boraginaceae (Suppl. material 1: Appendix 1). Furthermore, 79 taxa have recently been added to the flora of Mongolia (Suppl. material 1: Appendix 1). On the other hand, many taxa are

synonymized and/or the names and status of numerous taxa were changed based on our critical revisions (list of the synonymized taxa is provided Suppl. material 2: Appendix 2). In particular, accepted names of three families, 21 genera, and 232 taxa have been changed/synonymized. Moreover, 21 taxa listed in the Urgamal et al (2014) were absent from Mongolia based on our extensive research which is given in Suppl. material 2: Appendix 2 (Pimenov 2017; Ovczinnikova 2019a; Nesom 2020; Baasanmunkh et al. 2021b, 2022a). Due to this high number of synonymization, even after dozens of new species have been discovered in Mongolian flora, change in absolute species numbers appeared to be minor.

Previous checklists of vascular plants in Mongolia (Gubanov 1996; Urgamal et al. 2014), listed both native and non-native taxa; however, there were no specific remarks for non-native taxa. Recently, many researchers have published checklists of non-native plants, mainly in Europe and East Asia, for example, concerning China (Xu et al. 2012), Italy (Galasso et al. 2018), South Korea (Korea National Arboretum 2021) as well as the Russian Far East and Siberia (Ebel et al. 2014; Vinogradova et al. 2020). These works aim to increase awareness about invasive species and strengthen their biosecurity regulations. This level of detail is important because invasions have complex and often immense long-term direct and indirect effects on native natural communities (Pagad et al. 2018; van Kleunen et al. 2019; Pyšek et al. 2020). In many Central Asian countries, there is no separate checklist for non-native plants species (Sennikov and Lazkov 2021). The first checklist of alien species was recently published for Kyrgyzstan by Sennikov et al. (2021). In Mongolia, approximately 35 non-native plants taxa are recognized in GBIF (Munkhnast et al. 2020), but this list has not critically revised all non-native plants species of the country. In this study, we primarily excluded non-native species that were listed in the previous checklist of Mongolia, including two families Cannabaceae (*Cannabis sativa* L.) and Portulacaceae (*Portulaca oleracea* L.) and 57 other taxa (Table 3).

Mongolia has a relative small number of endemic vascular plants, with 102 taxa belonging to 43 genera and 19 families, accounting for only about 3% of the country's total flora (Baasanmunkh et al. 2021c). Notably, the Mongolian Altai and Khangai regions harbor over 70% of the total endemics and sub-endemics of Mongolia, which reflects their high species richness (Fig. 2; Table 2). This could be due to the diverse habitats along the Altai mountains and the large expanse of forest and mountain-steppe in both regions. Regional distribution of new species, new records, and recently revised genera and families, were provided based on literature. It is important to highlight that the study does not entirely revise regional distribution of each taxon. Nonetheless, we have been working on the grid distribution map of vascular plants (see Baasanmunkh et al. 2021b, 2022a) since 2020 based on critical revision of herbarium specimens, literature, and our own field observation data.

Both of the online databases are allowing researchers to collaborate and revise Mongolian taxa more readily and will continue to improve the documentation of Mongolia's flora. To date, a total of 2,249 taxa (ca. 73% of the flora) have been deposited in the database of GBIF (2021). Furthermore, the data for 1,249 species (including herbarium specimens and/or images of living plants) are at least partially available in the database of the Virtual Guide to the Flora of Mongolia (Rilke et al.

2012; Zemmrich et al. 2013; <https://floragreif.uni-greifswald.de/floragreif/>). Moreover, approximately 19,300 images of 1,780 taxa have been observed as part of citizen science contributions to the “Flora of Mongolia” project on the iNaturalist platform (<https://www.inaturalist.org/projects/flora-of-mongolia?tab=observations>), which was established on January 2019.

In this study, we checked more than 70 works published since 2013 that have revised the flora of Mongolia, and provided respective references for each species in our checklist. We reviewed the species status of all vascular flora of Mongolia and made critical changes by adding, synonymizing, and excluding taxa; this work resulted in 265 fewer taxa compared to Urgamal et al. (2014). We believe that our revised checklist serves as an essential background and reference not only for scientists and students, but also for local government administrations and protected areas, for the conservation of Mongolian flora. Having an updated checklist allows researchers and communities to monitor plants as climate and land use changes, and population size and herding pressures increase. We recommend more research be conducted on regional flora, as well as comprehensive revisions of species distribution based on herbarium collections for phytogeographical regions and taxonomic revision of doubtful taxa.

Annotated checklist of native vascular flora in Mongolia.

The families in the checklist are alphabetically ordered and, within them, the genera, species, and subspecies are alphabetically listed. The currently accepted names are highlighted in bold italics. The most common synonyms (previously used in Urgamal et al. (2014)) and the species’ distribution in phytogeographical regions are provided here. Symbols used in the checklist include endemic [E] and sub-endemic [SE].

I Lycophytes

1. Lycopodiaceae P.Beauv. (3 genera and 5 species)

<i>Diphasiastrum alpinum</i> (L.) Holub	[1, 2]
<i>Diphasiastrum complanatum</i> (L.) Holub	[1]
<i>Huperzia selago</i> (L.) Bernh.	[1, 2]
<i>Lycopodium annotinum</i> L.	[1, 2]
<i>Lycopodium clavatum</i> L.	[2]

2. Selaginellaceae Willk. (1 genus and 2 species)

<i>Selaginella borealis</i> (Kaulf.) Spring	[1, 3, 4, 8]
<i>Selaginella sanguinolenta</i> (L.) Spring	[1, 2, 3, 4, 8]

II Ferns and fern allies

3. Aspleniaceae Newman (1 genus and 5 species)

<i>Asplenium altajense</i> (Kom.) Grubov	[1, 3, 4, 7, 10, 13]
<i>Asplenium ruprechtii</i> Sa.Kurata	[2, 3, 4]

- Asplenium ruta-muraria* L. [7, 14]
Asplenium septentrionale (L.) Hoffm. [7, 8, 10, 14]
Asplenium yunnanense Franch. [7, 13]
- 4. Athyriaceae** Alston (2 genera and 4 species)
Athyrium filix-femina (L.) Roth [1–5]
Athyrium monomachi Kom. [2, 3, 4, 5]
Athyrium sinense Rupr. [3, 5, 9]
Diplazium sibiricum (Turcz.) Sa.Kurata [1–5]
- 5. Cystopteridaceae** Shmakov (2 genera and 4 species)
Cystopteris fragilis (L.) Bernh. [1–10, 13, 14, 15]
Cystopteris sudetica A.Braun & Milde [2]
Gymnocarpium dryopteris Newman [2, 4]
Gymnocarpium jessoense (Koidz.) Koidz. [1, 2, 3, 4, 5, 8]
- 6. Dennstaedtiaceae** Losty (1 genus and 1 species)
Pteridium aquilinum (L.) Kuhn [2, 3, 4, 5]
- 7. Dryopteridaceae** Herter (1 genus and 3 species)
Dryopteris dilatata (Hoffm.) A.Gray [2, 5]
Dryopteris expansa (C.Presl) Fraser-Jenk. & Jermy [2, 5]
Dryopteris fragrans (L.) Schott [2, 3, 4, 5, 7, 10]
- 8. Equisetaceae** Michx. (1 genus and 9 species)
Equisetum arvense L. [1–10, 14]
Equisetum fluviatile L. [1–10, 14]
Equisetum hyemale L. [3, 4, 5]
Equisetum palustre L. [1–10, 14]
Equisetum pratense Ehrh. [1–7, 9, 10]
Equisetum ramosissimum Desf. [14]
Equisetum scirpoides Michx. [1, 2, 3, 4, 6]
Equisetum sylvaticum L. [1–5, 8, 9]
Equisetum variegatum Schleich. [1, 4]
- 9. Onocleaceae** Pic.Serm. (2 genera and 2 species)
Matteuccia struthiopteris (L.) Tod. [2, 4]
Onoclea sensibilis L. [2]
- 10. Ophioglossaceae** Martinov (1 genus and 2 species)
Botrychium lanceolatum (Gmel.) Ångstr. [3]
Botrychium lunaria (L.) Sw. [1–7, 9]

11. Polypodiaceae J.Presl. & C.Presl (2 genera and 2 species)

- Lepisorus clathratus* Ching [13]
Polypodium virginianum L. [1–5, 8]

12. Pteridaceae E.D.M.Kirchn. (2 genera and 2 species)

- Cheilanthes argentea* (S.G.Gmel.) Kunze [1–9, 12, 13]
Cryptogramma stelleri (S.G.Gmel.) Prantl [1]

13. Thelypteridaceae Ching (1 genus and 1 species)

- Phegopteris connectilis* (Michx.) Watt [2, 4]

14. Woodsiaceae Herter (1 genus and 6 species)

- Woodsia calcarea* (Fomin) Shmakov [1, 3, 4]
Woodsia glabella R.Br. [1, 7, 10]
Woodsia heterophylla (Turcz.) Shmakov [1]
Woodsia ilvensis (L.) R.Br. [= *Woodsia acuminata* (Fomin) Sipliv.] [1–9, 13]
Woodsia pseudopolystichoides (Fomin) Kiselev & Shmakov [5]
Woodsia subcordata Turcz. [4, 5, 9]

III Gymnosperms**15. Cupressaceae** Gray (1 genus and 4 taxa)

- Juniperus communis* L. [1, 2, 3, 4, 6, 7]
Juniperus pseudosabina Fisch. & C.A.Mey. [1–4, 7, 8, 13]
Juniperus sabina var. *davurica* (Pall.) Farjon [= *Juniperus davurica* Pall.] [2]
Juniperus sabina L. var. *sabina* [2–4, 6–8, 10, 11, 13, 14]

16. Ephedraceae Dumort. (1 genus and 9 species)

- Ephedra dahurica* Turcz. [= *Ephedra sinica* subsp. *dahurica* (Turcz.) Galanin] [2, 3, 8, 9, 12]
Ephedra equisetina Bunge [3, 6–9, 12–16]
Ephedra fedtschenkoi Paulsen [2, 3, 4, 7]
Ephedra glauca Regel [12, 14, 15]
Ephedra intermedia Schrenk & C.A.Mey. [7, 14, 15]
Ephedra lomatolepis Schrenk [12, 14, 15]
Ephedra monosperma J.G.Gmel. [1–8, 10, 12–14]
Ephedra przewalskii Stapf [6, 7, 10–16]
Ephedra sinica Stapf [2–5, 7–15]

17. Pinaceae Spreng. (4 genera and 8 species)

- Abies sibirica* Ledeb. [1, 2]
Larix czekanowskii Szafer [4]
Larix gmelinii (Rupr.) Kuzen. [= *Abies gmelinii* Rupr.] [2, 4]
Larix sibirica Ledeb. [1–4, 6–8, 10, 14]
Picea obovata Ledeb. [1, 2, 3, 6, 7]

- Pinus pumila* (Pall.) Regel [2]
Pinus sibirica Du Tour [1, 2, 3, 6, 7]
Pinus sylvestris L. [1–5, 8, 9]

IV Angiosperms

18. Acoraceae Martinov (1 genus and 1 species)

- Acorus calamus* L. [1, 3, 4, 5, 8, 9]

19. Adoxaceae E.Mey. [including Viburnaceae Raf.] (3 genera and 6 species)

- Adoxa moschatellina* L. [1–3, 5–7, 13]
Sambucus sibirica Nakai [3, 6]
Sambucus williamsii Hance [= *Sambucus manshurica* Kitag.] [1, 2, 3, 4, 5, 9]
Viburnum burejaeticum Regel & Herder [5]
Viburnum mongolicum Rehder [= *Lonicera mongolica* Pall.] [4, 5, 8, 9]
Viburnum sargentii Koehne [5]

20. Alismataceae Vent. (2 genera and 4 species)

- Alisma gramineum* Lej. [5, 7, 8, 10, 11, 14]
Alisma plantago-aquatica L. [1–5, 8–10, 14]
Sagittaria natans Pall. [4, 9, 10, 14]
Sagittaria trifolia L. [1, 4, 5, 9, 14]

21. Amaranthaceae Juss. [including Chenopodiaceae Vent.] (34 genera and 94 taxa)

- Agriophyllum pungens* (Vahl) Link [= *Agriophyllum squarrosum* Moq.] [6–16]
Anabasis aphylla L. [7, 14]
Anabasis brevifolia C.A.Mey. [3, 6–8, 10–16]
Anabasis elatior (C.A.Mey.) Schischk. [14]
Anabasis eriopoda Paulsen [14]
Anabasis pellicotii Danguy [14]
Anabasis salsa Paulsen [14]
Anabasis truncata Bunge [7, 14]
Atriplex altaica Sukhor. [7]
Atriplex cana C.A.Mey. [14]
Atriplex fera (L.) Bunge [1, 3, 4, 8–10, 12, 13]
Atriplex laevis C.A.Mey. [3, 4, 8–11, 13–15]
Atriplex sibirica L. [2, 3, 4, 6–16]
Atriplex tatarica L. [7, 10, 14]
Axyris amaranthoides L. [2–5, 8, 9, 13]
Axyris hybrida L. [2–5, 7–10, 12–14]
Axyris prostrata L. [1–4, 6–10, 13, 14]
Bassia hyssopifolia (Pall.) Kuntze [6, 7, 10–14]
Bassia prostrata (L.) Beck [= *Kochia prostrata* (L.) Schrad.] [1–15]
Bassia scoparia (L.) A.J.Scott [= *Kochia scoparia* (L.) Schrad.] [2, 3, 4, 6–14]
Blitum virgatum L. [= *Chenopodium foliosum* Asch.] [3, 4, 6, 7, 12–15]

	<i>Camphorosma monspeliaca</i> subsp. <i>lessingii</i> (Litv.) Aellen	[6, 10, 14]
	<i>Caroxylon gemmascens</i> (Pall.) Tzvelev [= <i>Salsola gemmascens</i> Pall.]	[10]
	<i>Caroxylon passerinum</i> (Bunge) Akhani & Roalson [= <i>Salsola passerina</i> Bunge]	[8, 10–16]
	<i>Ceratocarpus arenarius</i> L.	[6, 7, 10, 14]
	<i>Chenopodiastrum hybridum</i> (L.) S.Fuentes, Uotila & Borsch [= <i>Chenopodium hybridum</i> L.]	[2, 3, 4, 5, 7–16]
	<i>Chenopodium acuminatum</i> Willd.	[3–14, 16]
	<i>Chenopodium album</i> L.	[1–16]
	<i>Chenopodium ficifolium</i> Sm.	[1, 9, 10, 11, 14]
	<i>Chenopodium frutescens</i> C.A.Mey.	[6, 7, 10]
	<i>Chenopodium iljinii</i> Golosk.	[7, 10]
	<i>Chenopodium karoii</i> Aellen	[1–15]
	<i>Chenopodium novopokrovskyanum</i> (Aellen) Uotila [= <i>Chenopodium album</i> subsp. <i>novopokrovskyanum</i> (Aellen) Uotila]	[7]
	<i>Chenopodium strictum</i> Roth	[2, 4, 9, 14]
	<i>Chenopodium vulvaria</i> L.	[3, 6–10, 13, 14]
	<i>Climacoptera affinis</i> (C.A.Mey.) Botsch. [= <i>Pyankovia affinis</i> (C.A.Mey.) Mosyakin & Roalson]	[14]
	<i>Climacoptera subcrassa</i> (Popov) Botsch.	[14]
	<i>Corispermum chinganicum</i> Iljin	[1–12]
	<i>Corispermum declinatum</i> Steph. ex Iljin	[3, 4, 8]
	<i>Corispermum elongatum</i> Bunge [= <i>Corispermum stauntonii</i> subsp. <i>elongatum</i> (Bunge) Vorosch.]	[10, 13]
	<i>Corispermum mongolicum</i> Iljin	[3, 4, 7–16]
SE	<i>Corispermum patelliforme</i> Iljin	[10, 13, 16]
SE	<i>Corispermum tylocarpum</i> Hance [= <i>Corispermum gmelinii</i> Bunge]	[12]
	<i>Dysphania botrys</i> (L.) Mosyakin & Clemants	[7, 14, 15]
	<i>Grubovia dasyphylla</i> (Fisch. & C.A.Mey.) Freitag & G.Kadereit [= <i>Bassia dasyphylla</i> (Fisch. & C.A.Mey.) Kuntze, <i>Kochia dasyphylla</i> Fisch. & C.A.Mey.]	[3–16]
	<i>Grubovia krylovii</i> (Litv.) Freitag & G.Kadereit [= <i>Kochia krylovii</i> Litv.]	[6, 7, 10–16]
	<i>Grubovia melanoptera</i> (Bunge) Freitag & G.Kadereit [= <i>Kochia melanoptera</i> Bunge]	[3, 6, 7, 10–16]
	<i>Halocnemum strobilaceum</i> (Pall.) M.Bieb.	[14]
	<i>Halogeton glomeratus</i> (M.Bieb.) C.A.Mey.	[7, 10, 11, 14, 15]
	<i>Halostachys caspica</i> C.A.Mey.	[14, 15]
	<i>Haloxylon ammodendron</i> (C.A.Mey.) Bunge	[7, 10–16]
	<i>Iljinia regelii</i> (Bunge) Korovin	[14, 15, 16]
	<i>Kalidium caspicum</i> (L.) Ung.-Sternb.	[10, 14]
	<i>Kalidium cuspidatum</i> (Ung.-Sternb.) Grubov	[3, 8, 9, 12–16]
	<i>Kalidium foliatum</i> Moq.	[3, 6–16]

- SE *Kalidium gracile* Fenzl [3, 4, 8–16]
Krascheninnikovia ceratoides (L.) Gueldenst.
 [= *Krascheninnikovia ewersmanniana* (Stschegl.) Grubov] [1, 3, 4, 6–16]
Micropeplis arachnoidea (Moq.) Bunge
 [= *Halogeton arachnoides* Moq.] [4, 6–16]
- SE *Nanophyton grubovii* U.P.Pratov [10]
- SE *Nanophyton mongolicum* U.P.Pratov [7, 14]
Oreosalsola abrotanoides (Bunge) Akhani [= *Salsola abrotanoides* Bunge] [6–13]
Oxybasis chenopodioides (L.) S.Fuentes, Uotila & Borsch
 [= *Chenopodium chenopodioides* (L.) Aellen] [7, 10, 14]
Oxybasis glauca (L.) S.Fuentes, Uotila & Borsch [= *Chenopodium glaucum* L.] [2–16]
Oxybasis gubanovii (Sukhor.) Sukhor. & Uotila
 [= *Chenopodium gubanovii* Sukhor.] [10, 14]
Oxybasis rubra (L.) S.Fuentes, Uotila & Borsch
 [= *Chenopodium rubrum* L.] [3, 7, 10, 14, 15]
Oxybasis urbica (L.) S.Fuentes, Uotila & Borsch
 [= *Chenopodium urbicum* L.] [4, 10]
Petrosimonia litvinowii Korsh. [10]
Petrosimonia sibirica Bunge [14]
- SE *Salicornia altaica* Lomon. [= *Salicornia perennans* subsp. *altaica* (Lomon.) G.Kadereit & Piirainen] [7]
Salsola collina Pall. [= *Kali collinum* (Pall.) Akhani & Roalson] [2–15]
- SE *Salsola ikonnikovii* Iljin [= *Kali ikonnikovii* (Iljin) Akhani & Roalson] [7, 11, 12, 13]
Salsola jacquemontii Moq [= *Kali jacquemontii* (Moq.) Akhani & Roalson] [8, 13]
Salsola laricifolia Litv. [12, 13, 16]
Salsola monoptera Bunge [= *Kali monopterum* (Bunge) Lomon.] [3, 6–13]
Salsola paulsenii Litv. [= *Kali paulsenii* (Litv.) Akhani & Roalson] [3, 7, 9–11, 14]
Salsola rosacea L. [7, 14]
Salsola tragus L. [2, 3, 4, 6–16]
Soda foliosa (L.) Akhani [= *Salsola foliosa* L. = *Neocaspia foliosa* (L.) Tzvelev] [14]
Suaeda acuminata (C.A.Mey.) Moq. [6, 10, 14]
Suaeda corniculata (C.A.Mey.) Bunge subsp. *corniculata* [1, 3–16]
Suaeda corniculata subsp. *mongolica* Lomon. & Freitag [3, 4, 7–11]
Suaeda glauca (C.A.Mey.) Bunge [4, 9, 16]
Suaeda heterophylla (Kar. & Kir.) Bunge [10–15]
Suaeda kossinskyi Iljin [= *Bienertia kossinskyi* (Iljin) Tzvelev] [6, 7, 10, 13, 16]
Suaeda linifolia Pall. [10, 14]
Suaeda prostrata Pall. [= *Suaeda maritima* auct. non L.] [6, 9–13, 16]

	<i>Suaeda przewalskii</i> Bunge [= <i>Bienertia przewalskii</i> (Bunge) G.L.Chu]	[10–13]
	<i>Suaeda salsa</i> (L.) Pall.	[8–13, 15, 16]
	<i>Suaeda sibirica</i> Lomon. & Freitag	[3, 4, 8, 9, 10]
SE	<i>Suaeda tschujensis</i> Lomon. & Freitag	[6, 7]
SE	<i>Suaeda tuvinica</i> Lomon. & Freitag	[3, 6, 10]
	<i>Sympegma regelii</i> Bunge	[7, 10–16]
	<i>Teloxys aristata</i> (L.) Moq. [= <i>Chenopodium aristatum</i> L. ≡ <i>Dysphania aristata</i> (L.) Mosyakin & Clemants]	[3–13, 15, 16]
	<i>Xylosalsola arbuscula</i> (Pall.) Tzvelev [= <i>Salsola arbuscula</i> Pall.]	[7, 13–16]

22. Amaryllidaceae J.St.-Hil. (1 genus and 50 taxa)

Note: According to Sinitsyna et al. (2018), *Allium spirale* is absent in Mongolia and *A. subangulatum* was found in southern Gobi by Friesen et al. (2020).

	<i>Allium altaicum</i> Pall.	[1–3, 6–8, 10, 13, 14]
	<i>Allium amphibolum</i> Ledeb.	[1–4, 6, 7, 10, 13, 14]
	<i>Allium anisopodium</i> Ledeb.	[2–13]
SE	<i>Allium austrosibiricum</i> N.Friesen	[3, 6, 7, 10, 14]
	<i>Allium baicalense</i> Willd. [= <i>Allium senescens</i> subsp. <i>glaucum</i> (Schrader) Dostál]	[1, 3–5, 9, 10]
	<i>Allium bidentatum</i> Fisch.	[1–6, 8–12, 14]
	<i>Allium burjaticum</i> N.Friesen	[3, 4, 8]
	<i>Allium carolinianum</i> Redouté	[14]
	<i>Allium chamarense</i> M.M.Ivanova	[1, 2, 3]
	<i>Allium clathratum</i> Ledeb.	[3, 6, 7, 10, 11]
	<i>Allium condensatum</i> Turcz.	[5, 9]
	<i>Allium eduardi</i> Stearn	[2, 3, 4, 6–16]
	<i>Allium flavidum</i> Ledeb.	[1–4, 6, 7, 13, 14]
	<i>Allium galanthum</i> Kar. & Kir.	[7, 14]
	<i>Allium hymenorrhizum</i> Ledeb.	[7, 14]
	<i>Allium karelinii</i> Poljakov	[7, 14]
	<i>Allium ledebourianum</i> Schult. & Schult.f.	[7]
	<i>Allium leucocephalum</i> Turcz.	[1–4, 7–14, 16]
	<i>Allium macrostemon</i> Bunge	[8, 9]
	<i>Allium malyshevii</i> N.Friesen	[1, 2, 3]
	<i>Allium maximowiczii</i> Regel	[2, 4, 5, 9]
	<i>Allium microdictyon</i> Prokh.	[1, 2, 3, 4]
	<i>Allium monadelphum</i> Turcz.	[1, 2, 3, 6, 7]
	<i>Allium mongolicum</i> Regel	[3, 4, 6–16]
	<i>Allium neriniflorum</i> G.Don	[4, 5, 9]
	<i>Allium obliquum</i> L.	[7]
	<i>Allium oliganthum</i> Kar. & Kir.	[6, 7, 10, 14]
	<i>Allium pallasii</i> Murray	[14]

	<i>Allium platyspathum</i> Schrenk subsp. <i>platyspathum</i>	[3, 6, 7, 13, 14]
	<i>Allium platyspathum</i> subsp. <i>amblyophyllum</i> (Kar. & Kir.) N.Friesen	[7, 13, 14]
	<i>Allium polyrhizum</i> Turcz.	[1, 2, 3, 4, 7–16]
	<i>Allium prostratum</i> Trev.	[1–13]
SE	<i>Allium pumilum</i> Vved.	[6, 7, 14]
	<i>Allium ramosum</i> L.	[1–13]
	<i>Allium rubens</i> Schrad.	[6, 7, 14]
	<i>Allium schischkinii</i> Sobolevsk.	[3, 6, 7, 10, 11, 13]
	<i>Allium schoenoprasum</i> L.	[1–7, 10]
	<i>Allium schrenkii</i> Regel [= <i>Allium bogdoicola</i> Regel]	[3, 6, 7, 10, 13, 14]
	<i>Allium senescens</i> L.	[1–10, 13]
	<i>Allium splendens</i> Willd.	[1–5, 8, 9]
	<i>Allium spurium</i> G.Don	[1, 2, 4, 5, 9]
	<i>Allium stellerianum</i> Willd.	[1, 2, 3, 4]
	<i>Allium strictum</i> Schrad.	[1–10, 13, 14]
SE	<i>Allium subangulatum</i> Regel	[16]
	<i>Allium subtilissimum</i> Ledeb.	[3, 14]
	<i>Allium tenuissimum</i> L.	[1–5, 7–9, 11–15]
	<i>Allium tuvinicum</i> (N.Friesen) N.Friesen	
	[≡ <i>Allium stellerianum</i> subsp. <i>tuvinicum</i> N.Friesen]	[3, 6, 7, 10]
SE	<i>Allium tyttchocephalum</i> Schult.f.	[4, 6, 7, 13]
SE	<i>Allium ubsicola</i> Regel	[6, 10, 14]
	<i>Allium vodopjanovae</i> N.Friesen	[3, 4, 6–8, 10–15]

23. Apiaceae Lindl. (36 genera and 66 taxa)

	<i>Aegopodium alpestre</i> Ledeb.	[1–5, 13]
	<i>Angelica czernaevia</i> (Fisch. & C.A.Mey.) Kitag.	[5, 9]
	<i>Angelica dahurica</i> (Hoffm.) Benth. & Hook.f. [≡ <i>Callisace dahurica</i> Hoffm.]	[2, 3, 4, 5, 9]
	<i>Angelica saxatilis</i> Turcz. [≡ <i>Physolophium saxatile</i> (Turcz.) Turcz.]	[2]
	<i>Angelica sylvestris</i> L.	[6, 7]
	<i>Anthriscus sylvestris</i> (L.) Hoffm.	[1–10]
	<i>Archangelica decurrens</i> Ledeb. [≡ <i>Angelica archangelica</i> subsp. <i>decurrens</i> (Ledeb.) Kuvaev]	[1–4, 6, 7, 14]
	<i>Aulacospermum anomalum</i> Ledeb.	[6, 7]
	<i>Bupleurum aureum</i> Fisch.	[7]
	<i>Bupleurum bicaule</i> Helm [= <i>Bupleurum pusillum</i> Krylov]	[1–4, 6–13]
	<i>Bupleurum densiflorum</i> Rupr. [= <i>Bupleurum mongolicum</i> V.M.Vinogr.]	[7, 13, 14]
	<i>Bupleurum krylovianum</i> Schischk.	[3, 7]
	<i>Bupleurum multinerve</i> DC. [= <i>Bupleurum longeinvolucratum</i> Krylov]	[1–5, 7, 9, 11]
	<i>Bupleurum scorzonnerifolium</i> Willd.	[1–6, 8, 9, 12, 13]
	<i>Bupleurum sibiricum</i> Vest	[2, 4, 8, 9]

- Carum buriaticum* Turcz. [1–6, 8, 9]
Carum carvi L. [1–5, 7–10, 14]
Cenolophium denudatum (Hornem.) Tutin [3, 7, 10, 14]
Cicuta virosa L. [1–15]
Cnidium dauricum (Jacq.) Turcz. [= *Laserpitium dauricum* Jacq.] [2–10]
Cnidium monnieri Cusson [4, 9]
SE *Conioselinum longifolium* Turcz. [1, 2, 4, 7, 9, 10]
Conioselinum tataricum Hoffm. [= *Conioselinum vaginatum* (Spreng.) Thell.] [1, 2, 3, 4]
Elwendia setacea (Schrenk) Pimenov & Kljuykov [= *Bunium setaceum* (Schrenk) H. Wolff, ≡ *Carum setaceum* Schrenk] [6, 7]
SE *Ferula bungeana* Kitag. [5, 8–16]
Ferula caspica M.Bieb. [7, 14]
Ferula dissecta Ledeb. [3, 6, 7, 10, 14]
Ferula dshaudshamyr Korovin [= *Ferula dubjanskyi* Korovin] [7, 14]
Ferula feruloides (Steud.) Korovin [7]
Ferula potaninii Korovin [14]
Ferula soongarica Pall. [= *Ferula mongolica* (V.M.Vinogr. & Kamelin) V.M.Vinogr. & Kamelin] [3, 7, 10, 14, 15]
SE *Ferulopsis hystrix* (Bunge) Pimenov [= *Peucedanum hystrix* Bunge] [2–4, 6–11, 13, 15]
SE *Haloselinum falcaria* (Turcz.) Pimenov [= *Peucedanum falcaria* Turcz.] [1, 3, 4, 6–8, 10, 11, 13–16]
Hansenia mongholica Turcz. [= *Ligusticum mongholicum* (Turcz.) Krylov] [1, 2]
Heracleum dissectum Ledeb. [1–7, 9, 10, 11, 13]
Heracleum sibiricum L. [1, 2, 3, 9, 13]
Kadenia salina (Turcz.) Lavrova & V.N.Tikhom. [= *Cnidium salinum* Liou] [2, 3, 4, 8–11, 13]
Kitagawia baicalensis (Redow.) Pimenov [≡ *Peucedanum baicalense* (Redow.) Koch] [1–8, 10]
Kitagawia terebinthacea (Fisch.) Pimenov [≡ *Peucedanum terebinthaceum* (Fisch.) Ledeb.] [2, 4, 5, 9]
SE *Lithosciadium kamelinii* (V.M.Vinogr.) Pimenov [≡ *Cnidium kamelinii* V.M.Vinogr.] [7]
SE *Lithosciadium multicaule* Turcz. [1, 3, 4, 6, 7, 13]
Neogaya simplex Meisn. [= *Pachypleurum alpinum* Ledeb.] [10]
Oenanthe aquatica (L.) Poir. [= *Peucedanum salinum* Pall.] [1–4, 6–10, 13]
Ostericum tenuifolium (Pall.) Y.C.Chu [= *Pachypleurum alpinum* Ledeb.] [1–4, 6, 7, 13, 14]
Paraligusticum discolor (Ledeb.) V.N.Tikhom. [7]
SE *Peucedanum puberulum* Turcz. [2, 3, 6, 8, 13]
Peucedanum vaginatum Ledeb. [1–4, 6, 7, 8, 11, 13]

- Phlojodicarpus sibiricus* Koso-Pol. [1–4, 7, 8, 9, 13]
Phlojodicarpus villosus Turcz. [1, 2, 3, 6]
Pimpinella thellungiana H.Wolff [4, 5, 9]
Pleurospermum uralense Hoffm. [1–6, 8, 9]
Prangos ledebourii Herrnst. & Heyn [7, 14]
Sajanella monstrosa (Willd.) Soják [1, 2]
Saposhnikovia divaricata (Turcz.) Schischk. [2–6, 8, 9]
Schulzia crinita (Pall.) Spreng. [1, 2, 3, 4, 6, 7]
Seseli abolinii (Korovin) Schischk. [= *Libanotis abolinii* (Korovin) Korovin] [7, 10, 11, 13]
Seseli buchtormense W.D.J.Koch [= *Libanotis buchtormensis* (Fisch.) DC.] [7, 14]
Seseli condensatum Rchb.f. [= *Libanotis condensata* (L.) Fisch.] [1–3, 6–8, 10, 14]
Seseli eriocarpum B.Fedtsch. [= *Libanotis eriocarpa* Schrenk] [7, 10, 14]
Seseli glabratum Willd. [= *Libanotis tenuifolia* DC.] [7]
SE *Seseli grubovii* V.M.Vinogr. & Sanchir [= *Libanotis grubovii* (V.M.Vinogr. & Sanchir) M.L.Sheh & M.F.Watson] [7, 13, 14, 15]
Seseli mucronatum (Schrenk) Pimenov & Sdobnina [14]
Seseli seseloides (Fisch. & C.A.Mey.) M.Hiroe
 [= *Libanotis seseloides* (Fisch. & C.A.Mey.) Turcz.] [1–7, 9]
Sium suave Walter [1–10, 14]
Sphallerocarpus gracilis Koso-Pol. [1–4, 6–13]
Stenocoelium athamantoides Ledeb. [= *Seseli athamantoides* (M.Bieb.) Beck] [6, 7]

24. Apocynaceae Juss. (3 genera and 10 taxa)

- Apocynum pictum* Schrenk [= *Apocynum hendersonii* Hook.f.] [7, 11, 14, 15]
Apocynum venetum L. [= *Poacynum venetum* (L.) Mavrodiev] [14]
Cynanchum acutum subsp. *sibiricum* (Willd.) Rech.f. [10–16]
Cynanchum bungei Decne. [9]
Cynanchum chinense R.Br. [9, 12, 15, 16]
SE *Cynanchum gobicum* Grubov [= *Vincetoxicum lanceolatum* (Grubov) Grubov] [12–16]
Cynanchum mongolicum Hemsl. [16]
Cynanchum purpureum K.Schum. [1, 2, 4, 5, 8, 9, 12, 16]
Vincetoxicum mukdenense Kitag. [= *Cynanchum paniculatum* (Bunge) Kitag.] [4, 5, 9]
Vincetoxicum sibiricum (L.) Decne. [= *Cynanchum thesioides* K.Schum.] [2–16]

25. Araceae Juss. (2 genera and 4 species)

- Lemna minor* L. [1, 3, 4, 7–11, 13]
Lemna trisulca L. [1–5, 8–11]
Lemna turionifera Landolt [9, 11]

- Spirodela polyrhiza* (L.) Schleid. [5, 9]
- 26. Asparagaceae** Juss. (5 genera and 19 species)
- Anemarrhena asphodeloides* Bunge [5, 9]
- Asparagus brachyphyllus* Turcz. [9]
- SE *Asparagus burjaticus* Peschkova [4]
- Asparagus dauricus* Fisch. [2–6, 8, 9, 11, 12]
- SE *Asparagus gobicus* Ivanova [7–16]
- Asparagus neglectus* Kar. & Kir. [14]
- Asparagus oligoclonos* Maxim. [5]
- Asparagus pallasii* Misch. [7, 10, 11]
- Asparagus schoberioides* Kunth [5]
- Asparagus tamariscinus* Ivanova [10, 14, 15, 16]
- Asparagus trichophyllus* Bunge [10, 12, 14–16]
- Convallaria keiskei* Miq. [2, 5]
- Maianthemum bifolium* (L.) F.W.Schmidt [1, 2, 3, 4, 5]
- Maianthemum dilatatum* (Alph.Wood) A.Nelson & J.F.Macbr. [3, 4, 5, 9]
- Maianthemum* × *intermedium* Vorosch. [5]
- Maianthemum trifolium* (L.) Sloboda [2]
- Polygonatum humile* Fisch. [4, 5]
- Polygonatum odoratum* (Mill.) Druce [1–5, 8, 9]
- Polygonatum sibiricum* Redouté [1–5, 8, 9, 12]
- 27. Asphodelaceae** Juss. [including Xantorrhoeaceae Dumort.] (1 genus and 2 taxa)
- Hemerocallis lilioasphodelus* L. var. *lillioasphodelus* [4, 5, 9]
- Hemerocallis lilioasphodelus* var. *minor* (Mill.) M.N.Tamura [≡ *Hemerocallis minor* Mill.] [1–5, 8, 9]
- 28. Asteraceae** Bercht. & J.Presl (85 genera and 456 taxa)
- Note: Some classifications of some genera of Asteraceae have changed after extensive molecular investigations. For example, species of *Scorzonera* L. were split into several genera, and three of them are present in Mongolia: *Lipschitzia* Zaika, Sukhor. & N.Kilian, *Takhtajaniantha* Nazarova, and *Scorzonera* L. s.str. by Zaika et al. (2020). The taxonomic status of *Scorzonera curvata*, *S. grubovii*, and *S. sinensis* is not resolved yet.
- Achillea acuminata* Sch.Bip. [2, 4, 5, 9]
- Achillea alpina* L. [1–6, 8–10]
- Achillea asiatica* Serg. [1–10, 14]
- Achillea impatiens* L. [2, 3, 4]
- Achillea ledebourii* Heimerl [3, 7, 8]
- Achillea millefolium* L. [1, 2, 3, 4, 7]
- Achillea ptarmicoides* Maxim. [2, 4, 8, 9, 10]

- Achillea sergievskiana* Shaulo & Shmakov [7]
- SE *Ajania achilleoides* Poljakov [3, 6–8, 10–13, 15, 16]
- Ajania fruticulosa* (Ledeb.) Poljakov [3, 4, 6–16]
- E *Ajania grubovii* Muldashev [= *Chrysanthemum grubovii* (Muldashev) H.Ohashi & Yonek.] [7, 14]
- Ajania trifida* (Turcz.) Muldashev [= *Hippolytia trifida* (Turcz.) Poljakov] [3, 6–9, 11–13, 16]
- Allardia tridactylites* Sch.Bip. [= *Waldheimia tridactylites* Kar. & Kir.] [1, 3, 6, 7, 13]
- Ancathia igniaria* DC. [3, 7, 10, 14, 15]
- Antennaria dioica* (L.) Gaertn. [1, 2, 3, 4, 7]
- Arctium tomentosum* Mill. [4]
- Arctogeron gramineum* (L.) DC. [1–5, 7, 8, 9]
- Arnica angustifolia* subsp. *iljinii* (Maguire) I.K.Ferguson [7]
- Artemisia adamsii* Besser [2, 3, 4, 6–13]
- SE *Artemisia aksaiensis* Y.R.Ling [2, 6, 8, 12–14, 16]
- Artemisia amoena* Poljakov [7, 12]
- Artemisia anethifolia* Weber [2, 3, 4, 7–16]
- Artemisia anethoides* Mattf. [8–16]
- Artemisia annua* L. [2–4, 7–10, 12–16]
- Artemisia argyi* H.Lév. & Vaniot [2, 4, 5, 7–9, 12, 13]
- Artemisia argyrophylla* Ledeb. [1, 3, 6, 7, 13, 15]
- E *Artemisia assurgens* Filatova [= *Seriphidium assurgens* (Filatova) K.Bremer & Humphries] [7, 11, 13–15]
- Artemisia aurata* Kom. [2–5, 8, 9, 13]
- Artemisia bargusinensis* Spreng. [1, 2, 3, 4, 5]
- SE *Artemisia blepharolepis* Bunge [11, 12, 13, 16]
- Artemisia borealis* Pall. [1–4, 6, 7, 10, 13]
- Artemisia borotalensis* Poljakov [7, 14]
[= *Seriphidium borotalense* (Poljakov) Ling & Y.R.Ling]
- SE *Artemisia brachyloba* Franch. [4, 8, 9]
- Artemisia brachyphylla* Kitam. [5]
- Artemisia caespitosa* Ledeb. [3, 4, 6–16]
- Artemisia capillaris* Thunb. [2, 3, 4, 5, 8, 9]
- Artemisia compacta* Fisch. [3, 6–8, 10–12, 14]
- Artemisia dahurica* (Turcz.) Poljakov [4]
- E *Artemisia davazamczii* Darijma & Kamelin [7, 10, 13, 15]
- Artemisia demissa* Krasch. [3, 7–16]
- Artemisia depauperata* Krasch. [1–4, 6–8, 10, 11, 13, 14]
- Artemisia desertorum* Spreng. subsp. *desertorum* [2, 4, 5, 9, 13]
- E *Artemisia desertorum* subsp. *pseudojaponica* Darijma & Kamelin [5]
- SE *Artemisia disjuncta* Krasch. [7, 13]

- SE *Artemisia dolosa* Krasch. [1–9, 11, 13]
- SE *Artemisia dracunculus* var. *changaica* (Krasch.) Y.R.Ling [\equiv *Artemisia changaica* Krasch.] [1, 3, 7, 8, 10, 11, 13]
- Artemisia dracunculus* L. var. *dracunculus* [1–15]
- Artemisia eriopoda* Bunge [16]
- Artemisia feddei* subsp. *arschantinica* (Darijma) Gubanov & Kamelin [\equiv *Artemisia arschantinica* Darijma] [16]
- Artemisia feddei* H.Lév. & Vaniot subsp. *feddei* [5, 9]
- Artemisia freyniana* (Pamp.) Krasch. [4–6, 8–10, 12, 13]
- Artemisia frigida* Willd. [1–16]
- SE *Artemisia giraldii* Pamp. [4]
- Artemisia glauca* Pall. [1–8, 10, 14]
- SE *Artemisia globosa* Krasch. [6, 8, 10, 12–14]
- SE *Artemisia globosoides* Ling & Y.R.Ling [9, 12]
- Artemisia gmelinii* Web. var. *gmelinii* [2–13]
- Artemisia gmelinii* var. *messerschmidiana* (Besser) Poljakov [2–5, 8, 9, 12, 13]
- Artemisia gracilescens* Krasch. & Iljin [7, 14, 15]
- Artemisia halodendron* Turcz. [4, 5, 8, 9, 12, 16]
- Artemisia heptapotamica* Poljakov [\equiv *Seriphidium heptapotamicum* (Poljakov) Ling & Y.R.Ling] [7, 14]
- Artemisia implicata* T.G.Leonova [16]
- Artemisia integrifolia* L. [1–5, 8, 9, 13]
- Artemisia klementzae* Krasch. [= *Artemisia xylorhiza* Krasch.] [3, 4, 7–13, 16]
- Artemisia laciniata* Willd. [1–5, 7–10, 12, 14]
- SE *Artemisia lagocephala* Fisch. var. *lithophila* (Turcz.) Y.R.Ling [1]
- Artemisia latifolia* Ledeb. [2, 4, 5, 9]
- Artemisia macilenta* (Maxim.) Krasch. [2, 3, 4, 5, 9]
- Artemisia macrantha* Ledeb. [1, 2, 3, 7]
- Artemisia macrocephala* Jacquem. [1–16]
- Artemisia manshurica* (Kom.) Kom. [2, 3, 4, 5, 8, 9]
- Artemisia marschalliana* Spreng. [7]
- Artemisia maximovicziana* Krasch. [4, 5, 9]
- Artemisia medioxima* Krasch. [1, 2, 3, 4, 9]
- Artemisia mongolica* (Fisch.) Nakai [\equiv *Artemisia vulgaris* var. *mongolica* Fisch.] [1–15]
- Artemisia mongolorum* subsp. *gobicum* Krasch. [\equiv *Artemisia gobica* (Krasch.) Grubov] [3, 4, 6–16]
- Artemisia mongolorum* Krasch. subsp. *mongolorum* [\equiv *Seriphidium mongolorum* (Krasch.) Ling & Y.R.Ling] [3, 4, 6–16]
- Artemisia nitrosa* Weber [3, 4, 8, 9]
- Artemisia obtusiloba* subsp. *altaiensis* (Krasch.) Krasnob. [\equiv *Artemisia altaiensis* Krasch.] [3, 6, 7]

- Artemisia obtusiloba* Ledeb. subsp. *obtusiloba* [3, 6, 7, 10, 13, 14]
Artemisia obtusiloba var. *glabra* Ledeb. [= *Artemisia glabella* Kar. & Kir.] [3, 6, 10]
- SE *Artemisia ordosica* Krasch. [7, 9, 10, 12–16]
 SE *Artemisia oxycephala* Kitag. [4, 5, 8, 9]
Artemisia palustris L. [1–13]
Artemisia pamirica C.Winkl. [3, 6, 7, 10–13]
Artemisia phaeolepis Krasch. [1–4, 6–9, 13, 14]
Artemisia pubescens Ledeb. [= *Artemisia commutata* Besser] [1–4, 6–11, 13, 14]
Artemisia pycnorrhiza Ledeb. [1–4, 6–8, 10–14]
Artemisia rubripes Nakai [2, 3, 4, 5, 8, 9]
Artemisia rupestris L. [1–4, 6–8, 10, 14]
Artemisia rutifolia var. *altaica* (Krylov) Krasch. [7]
Artemisia sacrorum var. *messerschmidtiana* (Besser) Y.R.Ling [2–5, 8, 9, 12, 13]
Artemisia saissanica (Krasch.) Filatova [7, 10, 14]
Artemisia santolinifolia Turcz.
 [= *Artemisia santolinifolia* subsp. *stepposa* Darijma] [2, 3, 6–15]
Artemisia schischkinii Krasch. [6, 7, 10, 14]
Artemisia schrenkiana Ledeb. [3, 6, 10, 14]
Artemisia scoparia Waldst. & Kit. [2–12]
Artemisia selengensis Turcz. [3, 4, 5, 9]
Artemisia sericea Weber [1, 2, 3, 4, 5, 8]
Artemisia sieversiana Ehrh. [1–16]
 SE *Artemisia sphaerocephala* Krasch. [3, 10–16]
Artemisia stolonifera (Maxim.) Kom. [3, 7, 10, 13–16]
 SE *Artemisia subchrysolepis* Filatova [≡ *Seriphidium subchrysolepis* (Filatova) K.Bremer & Humphries] [7, 14]
Artemisia subdigitata Mattf. [≡ *Artemisia dubia* var. *subdigitata* (Mattf.) Y.R.Ling] [3, 4, 7, 10, 12–16]
Artemisia sublessingiana Krasch. [= *Seriphidium gorjaevii* (Poljak.) Y.R.Ling] [14]
Artemisia subulata Nakai [1, 5, 9]
Artemisia succulenta Ledeb. [7]
Artemisia sylvatica Maxim. [4, 5, 9, 10, 15]
Artemisia tanacetifolia L. [1–10, 14]
Artemisia terrae-albae Krasch. [7, 14, 15]
Artemisia tomentella Trautv. [1, 3, 6, 10–12, 14]
Artemisia tournefortiana Rchb. [7, 9, 12, 14]
 SE *Artemisia transbaicalensis* T.G.Leonova [1, 3]
Artemisia umbrosa (Besser) Turcz. [4, 5, 9]
Artemisia vestita Wall. [13]

- Artemisia viridis* Willd. [6, 7, 14]
Artemisia vulgaris subsp. *vulgaris* L. [2, 3]
E *Artemisia vulgaris* subsp. *inundata* Darijma [= *Artemisia superba* Pamp.] [1–4, 7, 9, 10, 13, 14]
Artemisia wudanica Liou & W.Wang [8, 9, 12]
SE *Artemisia xanthochloa* Krasch. [3–16]
Artemisia xerophytica Krasch. [6, 7, 8, 10–16]
Askellia flexuosa (Ledeb.) W.A.Weber [1, 3, 5–11, 13–16]
Askellia pygmaea (Ledeb.) Sennikov [1, 3, 6, 7]
Aster alpinus L. [1–10, 13]
Aster hispidus Thunb. [2–6, 8–11, 13, 15]
Aster lingii G.J.Zhang & T.G.Gao [= *Rhinactinidia limoniifolia* Novopokr.] [7]
Aster maackii Regel [5]
E *Aster sanczirii* Kamelin & Gubanov [5]
Aster tataricus L.f. [2, 3, 4, 5, 9]
SE *Asterothamnus alyssoides* (Turcz.) Novopokr. [= *Aster alyssoides* Turcz.] [8, 12]
SE *Asterothamnus centralasiaticus* var. *potaninii* (Novopokr.) Y.Ling & Y.L.Chen [≡ *Asterothamnus potaninii* Novopokr.] [7, 8, 9, 11–16]
SE *Asterothamnus heteropappoides* Novopokr. [6, 7, 10, 14]
Asterothamnus molliusculus Novopokr. [12, 15]
Asterothamnus poliifolius Novopokr. [3, 6, 7, 10, 11, 13–15]
Bidens cernua L. [3, 4, 6, 7, 9–11]
Bidens parviflora Willd. [3, 4, 6, 8–10, 13]
Bidens radiata Thuill. [3, 4, 6–10]
Bidens tripartita L. [1–4, 7, 8–10, 14]
SE *Brachanthemum gobicum* Krasch. [12, 13, 16]
SE *Brachanthemum mongolicum* Krasch. [12, 14]
E *Brachanthemum mongolorum* Grubov [9]
Cancrinia discoidea (Ledeb.) Poljakov [7, 10–16]
SE *Cancrinia krasnoborovii* Khanm. [10]
Carduus crispus L. [2–7, 9]
Carduus nutans L. [1, 7]
Centaurea adpressa Ledeb. [6]
Centaurea glastifolia subsp. *intermedia* (Boiss.) L.Martins [= *Centaurea chartolepis* Greuter] [6, 7]
Centaurea pulchella Ledeb. [= *Hyalea pulchella* (Ledeb.) K.Koch] [7, 14]
Chondrilla leiosperma Kar. & Kir. [6, 7, 10, 14]
E *Chrysanthemum chalchingolicum* Grubov [5, 9]
Chrysanthemum mongolicum Ling [≡ *Chrysanthemum zawadzkiei* var. *mongolicum* (Ling) Gubanov] [1, 2, 3]

	<i>Chrysanthemum nakdongense</i> Nakai	[9]
SE	<i>Chrysanthemum sinuatum</i> Ledeb. [<i>Tanacetum sinuatum</i> Sch.Bip.]	[6, 7]
	<i>Chrysanthemum trilobatum</i> (Poljakov) H.Ohashi & Yonek.	
	[= <i>Ajania trilobata</i> Poljakov]	[12, 13]
	<i>Chrysanthemum zawadzkii</i> Herbach	[1–5, 8, 9]
	<i>Cicerbita azurea</i> (Ledeb.) Beaverd	[3, 7, 10]
	<i>Cirsium arvense</i> (L.) Scop. [= <i>Serratula arvensis</i> L.]	[2–4, 7, 9–11, 13–15]
	<i>Cirsium esculentum</i> C.A.Mey.	[1–4, 6–11, 14]
	<i>Cirsium glabrifolium</i> O.Fedtsch. & B.Fedtsch.	[7]
	<i>Cirsium helenioides</i> (L.) Hill [= <i>Carduus helenioides</i> L.]	[2]
	<i>Cirsium pendulum</i> Fisch.	[2, 4, 5, 9]
	<i>Cirsium serratuloides</i> Hill	[1, 2, 3]
	<i>Cirsium setosum</i> (Willd.) M.Bieb. [= <i>Serratula setosa</i> Willd.]	[3, 4, 7–11, 14, 15]
	<i>Cirsium sieversii</i> (Fisch. & C.A.Mey.) Petr.	
	[= <i>Cirsium polyacanthum</i> Kar. & Kir.]	[7]
	<i>Cirsium vlassovianum</i> Fisch.	[2, 5, 9]
	<i>Cousinia affinis</i> Schrenk	[14]
	<i>Crepidiastrum akagii</i> (Kitag.) J.W.Zhang & N.Kilian	
	[= <i>Youngia tenuicaulis</i> (Babc. & Stebbins) Czerep.]	[2, 3, 6–8, 10–15]
	<i>Crepidiastrum sonchifolium</i> (Bunge) Pak & Kawano	[5]
	<i>Crepidiastrum tenuifolium</i> (Willd.) Sennikov	
	[= <i>Crepis tenuifolia</i> Willd. = <i>Youngia tenuifolia</i> (Willd.)	
	Babc. & Stebbins]	[1–11, 13, 14]
	<i>Crepis bungei</i> Ledeb.	[1–4, 6–9, 11]
	<i>Crepis chrysantha</i> Froel.	[1, 2, 3, 6, 7, 10]
	<i>Crepis crocea</i> (Lam.) Babc. var. <i>crocea</i>	[2, 3, 4, 6–13]
SE	<i>Crepis crocea</i> var. <i>czuensis</i> (Serg.) Tzvelev [= <i>Crepis czuensis</i> Serg.]	[6, 7]
E	<i>Crepis lomonosovae</i> Tzvelev	[3, 13]
	<i>Crepis lyrata</i> (L.) Froel.	[1, 7]
	<i>Crepis multicaulis</i> Ledeb.	[3, 7, 10, 13, 14]
	<i>Crepis polytricha</i> Turcz.	[1, 3, 4, 6, 7]
	<i>Crepis praemorsa</i> (L.) Tausch [= <i>Hieracium praemorsum</i> L.]	[4, 10]
	<i>Crepis sibirica</i> L.	[2–5, 7, 8, 11]
	<i>Crepis tectorum</i> L.	[2, 4, 7, 10, 14]
	<i>Doronicum altaicum</i> Pall.	[1]
	<i>Doronicum oblongifolium</i> DC.	[7, 14]
	<i>Doronicum turkestanicum</i> Cavill.	[3, 7, 14]
	<i>Echinops davuricus</i> Fisch. [= <i>Echinops latifolius</i> Tausch]	[1–5, 8, 9]
	<i>Echinops gmelinii</i> Turcz.	[3, 7–16]
	<i>Echinops humilis</i> M.Bieb.	[3, 7, 13–15]
	<i>Echinops integrifolius</i> Kar. & Kir.	[6, 7, 14]
	<i>Echinops nanus</i> Bunge	[7, 14]
	<i>Echinops ritro</i> L.	[7, 14]

	<i>Erigeron acris</i> L.	[1–7, 9, 10, 13]
	<i>Erigeron altaicus</i> Popov	[7, 14]
SE	<i>Erigeron baicalensis</i> Botsch.	[1]
	<i>Erigeron eriocalyx</i> (Ledeb.) Vierh.	[1–3, 6, 7, 13]
	<i>Erigeron krylovii</i> Serg.	[3, 7]
	<i>Erigeron lonchophyllus</i> Hook.	[1–7, 9, 10, 13]
	<i>Erigeron oreades</i> Fisch. & C.A.Mey.	[1, 3, 7, 13]
	<i>Erigeron petiolaris</i> Vierh.	[3, 7]
	<i>Erigeron politus</i> Fr.	[1–4, 6, 7, 13]
	<i>Erigeron pseudoeriocephalus</i> Popov	[3]
	<i>Filago arvensis</i> L.	[7, 8, 10, 14]
	<i>Filifolium sibiricum</i> (L.) Kitam. [= <i>Tanacetum sibiricum</i> L.]	[1–5, 8, 9]
	<i>Galatella altaica</i> Tzvelev	[7, 14]
	<i>Galatella angustissima</i> (Tausch) Novopokr.	[1]
	<i>Galatella dahurica</i> DC. [= <i>Galatella macrosciadia</i> Gand. = <i>Galatella songorica</i> Novopokr.]	[1–7, 9, 10]
	<i>Galatella hauptii</i> Lindl.	[7]
	<i>Gnaphalium uliginosum</i> L. [= <i>Gnaphalium baicalense</i> Kirp. & Kuprian.]	[2–4, 7, 9, 10, 14]
	<i>Helichrysum arenarium</i> Moench	[7]
	<i>Heteropappus altaicus</i> Novopokrov. [≡ <i>Aster altaicus</i> Willd.]	[1–4, 6–8, 10, 12–16]
	<i>Heteropappus biennis</i> (Ledeb.) Tamamsch.	[1–5, 8, 9]
SE	<i>Heteropappus medius</i> (Krylov) Tamamsch.	[3, 4, 5, 8, 9]
SE	<i>Hieracium czadanense</i> Tupitz.	[1, 10]
	<i>Hieracium korshinskyi</i> Zahn	[2, 4]
	<i>Hieracium narymense</i> Schischk. & Serg.	[2, 4]
	<i>Hieracium robustum</i> Fr.	[8, 9]
	<i>Hieracium sershukense</i> Üksip	[7]
	<i>Hieracium subramosum</i> Lonnr.	[2, 4]
	<i>Hieracium umbellatum</i> L.	[1–5, 7, 8, 9, 10]
	<i>Hieracium virosum</i> Pall.	[2, 3, 4, 5, 7, 9]
	<i>Hololeion maximowiczii</i> Kitam.	[9]
	<i>Hypochaeris maculata</i> L. [≡ <i>Trommsdorffia maculata</i> (L.) Bernh.]	[4, 8]
	<i>Inula japonica</i> Thunb.	[2]
	<i>Inula linariifolia</i> Turcz.	[5, 8, 10, 11]
	<i>Inula salsoloides</i> Ostenf. [≡ <i>Limbarda salsoloides</i> Ikonn.]	[8, 11, 12, 13, 15, 16]
	<i>Ixeris chinensis</i> (Thunb.) Kitagawa subsp. <i>chinensis</i> s.l. [= <i>Ixeridium graminifolium</i> (Ledeb.) Tzvelev, = <i>Ixeridium gramineum</i> (Fisch.) Tzvelev]	[2–5, 7–9, 12, 14]
	<i>Jacobaea ambracea</i> (Turcz.) B.Nord. [= <i>Senecio ambraceus</i> Turcz.]	[2, 3, 4, 6–10, 14]
	<i>Jacobaea cannabifolia</i> (Less.) E.Wiebe [≡ <i>Senecio cannabifolius</i> Less.]	[2, 3, 5, 9]

- Jacobaea erucifolia* subsp. *argunensis* (Turcz.) Veldkamp
 [= *Senecio argunensis* Turcz.] [5, 9]
- Jacobaea erucifolia* (L.) G.Gaertn., B.Mey. & Scherb. subsp. *erucifolia*
 [= *Senecio erucifolius* L.] [2–4, 6, 7, 9, 10]
- Jacobaea vulgaris* Gaertn. [= *Senecio jacobaea* L.] [3, 4, 7–10, 14]
- Jurinea chaetocarpa* (Ledeb.) Ledeb. [7, 14]
- Jurinea margalensis* Iljin [7, 14]
- SE *Jurinea mongolica* Maxim. [= *Jurinea potaninii* Iljin] [10–14]
- Jurinea multiflora* B.Fedtsch. [7, 14]
- Karelinia caspia* Less. [14, 15, 16]
- Kaschgaria komarovii* (Krasch. & Rubtzov) Poljakov
 [= *Tanacetum komarovii* Krasch. & Rubtzov] [7, 14, 15]
- Klasea cardunculus* (Pall.) Holub [= *Serratula cardunculus* (Pall.) Schischk.]
 [2, 3, 4, 5, 7]
- Klasea centauroides* (L.) Cass. [= *Serratula centauroides* L.] [1–5, 7–13]
- Klasea marginata* (Tausch) Kitag. [= *Serratula marginata* Tausch]
 [1–4, 7–10, 13, 14]
- Klasea sogdiana* (Bunge) L.Martins [= *Serratula sogdiana* Bunge,
Serratula alata C.A.Mey.] [6]
- Lactuca serriola* L. [= *Lactuca sativa* subsp. *serriola* (L.) Frietema]
 [7, 10, 14, 15]
- Lactuca sibirica* Benth. [2–6, 8, 9, 11]
- Lactuca tatarica* C.A.Mey. [3, 4, 6–16]
- Lactuca undulata* Ledeb. [7, 14]
- Leibnitzia anandria* (L.) Turcz. [2, 3, 4, 5, 9]
- Leontopodium campestre* Hand.-Mazz. [1–3, 6–9, 11, 13, 14]
- Leontopodium conglobatum* Hand.-Mazz. [1–9, 13]
- Leontopodium leontopodioides* (Willd.) Beauverd [1–5, 8, 9, 16]
- Leontopodium nanum* (Hook.f. & Thomson) Hand.-Mazz. [16]
- Leontopodium ochroleucum* Beauverd [1–3, 6, 7, 13]
- Leontopodium palibinianum* Beauverd [2, 4, 5]
- Leuzea carthamoides* DC. [= *Rhaponticum carthamoides* (Willd.) Iljin] [7]
- Leuzea repens* (L.) D.J.N.Hind, [= *Rhaponticum repens* (L.) Hidalgo
 = *Acroptilon repens* (L.) DC.] [6, 7, 10–16]
- Leuzea uniflora* (L.) Holub [= *Rhaponticum uniflorum* (L.) DC.] [1–5, 8, 9]
- Ligularia altaica* DC. [6, 7]
- Ligularia fischerii* (Ledeb.) Turcz. [2, 3, 4, 5, 9]
- Ligularia glauca* (L.) O.Hoffm. [7]
- Ligularia hodgsonii* Hook.f. [5, 9]
- Ligularia mongolica* DC. [5, 9]
- Ligularia przewalskii* Diels [9, 12]
- Ligularia sagitta* (Maxim.) Mattf. [= *Senecio sagitta* Maxim.] [4, 5, 9]
- Ligularia sibirica* Cass. [1, 2, 3, 4, 5, 9]

	<i>Lipschitzia divaricata</i> (Turcz.) Zaika, Sukhor. & N.Kilian	
	[≡ <i>Scorzonera divaricata</i> Turcz.]	[6–13, 15, 16]
	<i>Matricaria chamomilla</i> L. [= <i>Matricaria recutita</i> L.]	[2]
	<i>Neopallasia pectinata</i> (Pall.) Poljakov	[1–4, 6–16]
SE	<i>Olgaea leucophylla</i> (Turcz.) Iljin	[8, 9, 11–13]
SE	<i>Olgaea lomonossowii</i> (Trautv.) Iljin	[9]
	<i>Omalotheca supina</i> (L.) DC. [= <i>Gnaphalium supinum</i> L.]	[2, 7]
	<i>Packera cymbalaria</i> (Pursh) W.A.Weber & Á.Löve	
	[≡ <i>Senecio cymbalaria</i> Pursh]	[1, 3, 7]
	<i>Parasenecio hastatus</i> (L.) H.Koyama [≡ <i>Cacalia hastata</i> L.]	[1, 2, 3, 4, 5, 9]
	<i>Pentanema asperum</i> (Poir.) G.V.Boiko & Korniy. [≡ <i>Inula aspera</i> Poir.]	
		[2, 3, 9]
	<i>Pentanema britannica</i> (L.) D.Gut.Larr. [≡ <i>Inula britannica</i> L.]	[1–11, 13, 14]
	<i>Pentanema salicinum</i> (L.) D.Gut.Larr. [≡ <i>Inula salicina</i> L.]	[2, 3, 4, 5, 9]
	<i>Petasites frigidus</i> (L.) Fr.	[1]
	<i>Petasites radiatus</i> (J.F.Gmel.) Toman	[1]
	<i>Petasites rubellus</i> (J.F.Gmel.) Toman	[1, 3]
	<i>Phalacrachena calva</i> (Ledeb.) Iljin	[10]
	<i>Picris davurica</i> Fisch.	[1, 3, 4, 8, 9]
	<i>Picris hieracioides</i> L.	[2, 3, 4, 5]
	<i>Picris japonica</i> Thunb.	[2, 3, 4, 5, 9]
	<i>Pilosella dublitzkii</i> (B.Fedtsch. & Nevski) Sennikov	
	[≡ <i>Hieracium dublitzkii</i> B.Fedtsch. & Nevski]	[7]
	<i>Pilosella echiioides</i> (L.) F.W.Schultz & Sch.Bip. [≡ <i>Hieracium echiioides</i> L.]	
		[2, 4]
	<i>Pulicaria vulgaris</i> Gaertn.	[10]
	<i>Rhinactinidia eremophila</i> (Bunge) Novopokr. [= <i>Rhinactinidia eremophila</i>	
	subsp. <i>grubovii</i> Botsch.]	[3, 6, 7, 10, 11, 13, 14]
	<i>Richteria pyrethroides</i> Kar. & Kir. [≡ <i>Pyrethrum pyrethroides</i> (Kar. & Kir.)	
	B.Fedtsch.]	[7]
	<i>Saussurea acuminata</i> Turcz.	[2, 4, 5]
SE	<i>Saussurea alaschanica</i> Maxim.	[6, 10]
	<i>Saussurea alata</i> DC.	[4, 6, 10]
	<i>Saussurea alpina</i> (L.) DC.	[1–3, 6, 7, 13]
	<i>Saussurea amara</i> (L.) DC.	[1–5, 7–12, 14]
SE	<i>Saussurea arctecapitulata</i> Lipsch.	[1, 3]
	<i>Saussurea baicalensis</i> B.L.Rob.	[1, 2, 3, 7]
SE	<i>Saussurea bogedaensis</i> Yu J.Wang & J.Chen	[14]
SE	<i>Saussurea catharinae</i> Lipsch.	[15]
SE	<i>Saussurea ceterachifolia</i> Lipsch.	[3, 6, 7]
	<i>Saussurea congesta</i> Turcz.	[1]
	<i>Saussurea controversa</i> DC.	[1, 2, 3, 5]
	<i>Saussurea coronata</i> Schrenk [= <i>Saussurea dshungarica</i> Iljin]	[7]

	<i>Saussurea daurica</i> Adams	[3, 6–16]
SE	<i>Saussurea dorogostaiskii</i> Palib.	[1, 2]
	<i>Saussurea elata</i> Ledeb.	[7]
	<i>Saussurea elegans</i> Ledeb. [= <i>Saussurea amoena</i> Kar. & Kir.]	[3, 6, 7]
SE	<i>Saussurea elongata</i> DC.	[1, 2, 4]
	<i>Saussurea foliosa</i> Ledeb.	[6, 7]
	<i>Saussurea glacialis</i> Herder	[1, 3, 6, 7, 13, 14]
SE	<i>Saussurea grubovii</i> Lipsch.	[7, 14, 15]
E	<i>Saussurea gubanovii</i> Kamelin	[15]
	<i>Saussurea involucrata</i> (Kar. & Kit.) Sch.Bip.	[1–3, 6, 7, 13, 14]
	<i>Saussurea japonica</i> (Thunb.) DC.	[9]
	<i>Saussurea klementzii</i> Lipsch.	[7]
SE	<i>Saussurea krasnoborovii</i> S.V.Smirn.	[1]
	<i>Saussurea krylovii</i> Schischk. & Serg.	[7]
	<i>Saussurea laciniata</i> Ledeb.	[3, 4, 6–8, 10, 11, 13–16]
	<i>Saussurea latifolia</i> Ledeb.	[3, 7]
	<i>Saussurea leucophylla</i> Schrenk	[1, 3, 6, 7, 13]
SE	<i>Saussurea lipschitzii</i> Filatova	[7, 13]
	<i>Saussurea mongolica</i> (Franch.) Franch.	[5]
	<i>Saussurea neoserrata</i> Nakai	[2, 5]
	<i>Saussurea odontolepis</i> Sch.Bip.	[5]
E	<i>Saussurea odorata</i> E.Pjak	[7]
	<i>Saussurea orgaadayi</i> Khanm. & Krasnob.	[3, 7]
	<i>Saussurea parviflora</i> (Poir.) DC.	[1–7, 9]
SE	<i>Saussurea popovii</i> Lipsch.	[14]
	<i>Saussurea pricei</i> N.D.Simpson	[3, 6–8, 10, 11, 13, 14]
	<i>Saussurea pseudoalpina</i> N.D.Simpson	[1–3, 6, 7, 13, 14]
	<i>Saussurea pseudosalsa</i> Lipsch.	[15, 16]
	<i>Saussurea pulchella</i> Fisch.	[5, 7, 8, 9]
SE	<i>Saussurea purpurata</i> (Fisch.) Lipsch.	[2, 4]
E	<i>Saussurea ramosa</i> Lipsch.	[3, 10, 11, 15]
	<i>Saussurea recurvata</i> (Maxim.) Lipsch.	[2, 5]
	<i>Saussurea runcinata</i> DC.	[2–4, 7, 8, 10]
E	<i>Saussurea saichanensis</i> Kom.	[1–3, 6, 7, 13, 14]
	<i>Saussurea salicifolia</i> DC.	[2–9]
	<i>Saussurea salsa</i> Spreng.	[3, 5–11, 14, 16]
	<i>Saussurea schanginiana</i> (Wydler) Fisch.	[1–3, 6, 7, 13]
SE	<i>Saussurea squarrosa</i> Turcz.	[1]
	<i>Saussurea stubendorffii</i> Herder	[1, 3]
	<i>Saussurea subacaulis</i> (Ledeb.) Serg.	[1, 3, 6, 7, 13]
SE	<i>Saussurea sukaczewii</i> Lipsch.	[1, 2, 3]
	<i>Saussurea ussuriensis</i> Maxim.	[5]
	<i>Scorzonera albicaulis</i> Bunge	[1, 2, 4, 5, 9]

- Scorzonera curvata* (Popl.) Lipsch. [3, 7, 8, 9, 13]
 E *Scorzonera grubovii* Lipsch. [7, 14]
Scorzonera parviflora Jacq. [14]
Scorzonera radiata Fisch. [1–10, 13, 14]
Scorzonera sinensis (Lipsch. & Krasch.) Nakai [9]
Senecio dubitabilis C.Jeffrey & Y.L.Chen
 [= *Senecio dubius* Ledeb. nom. illegit. non Beck] [2, 3, 7, 8, 10–15]
 E *Senecio kenteicus* Grubov [2]
Senecio nemorensis L. [1, 2, 3]
Senecio subdentatus Ledeb. [7, 10, 14, 15]
Senecio vulgaris L. [1–4, 7, 8, 10]
Serratula coronata L. [5, 9]
Serratula kirghisorum Iljin [7]
Solidago dahurica (Kitag.) Kitag. [1–5, 7, 9]
Solidago virgaurea L. [7]
Sonchella dentata (Ledeb.) Sennikov [= *Sonchus dentatus* Ledeb.] [10, 14, 15]
Sonchella stenoma (Turcz.) Sennikov [= *Crepis stenoma* Turcz.] [8–15]
Sonchus arvensis L. [2–5, 7–11, 13, 14]
Sonchus brachyotus DC. [8–10, 13, 14]
Sonchus uliginosus M.Bieb. [4, 5, 8, 9, 10]
Stilpnolepis intricata (Franch.) C.Shih [3, 4, 7, 9–15]
Symphotrichum ciliatum (Ledeb.) G.L.Nesom [3, 4, 9, 10]
Synurus deltoides (Aiton) Nakai [4, 5]
Takhtajaniantha austriaca (Willd.) Zaika, Sukhor. & N.Kilian [= *Scorzonera austriaca* Willd.] [2–10, 12–14]
Takhtajaniantha capito (Maxim.) Zaika, Sukhor. & N.Kilian [= *Scorzonera capito* Maxim.] [8, 11–16]
Takhtajaniantha ikonnikovii (Krasch. & Lipsch.) Zaika, Sukhor. & N.Kilian
 [= *Scorzonera ikonnikovii* Lipsch. & Krasch.] [3, 6–15]
Takhtajaniantha mongolica (Maxim.) Zaika, Sukhor. & N.Kilian [= *Scorzonera mongolica* Maxim.] [10–16]
Takhtajaniantha pseudodivaricata (Lipsch.) Zaika, Sukhor. & N.Kilian [= *Scorzonera pseudodivaricata* Lipsch] [3, 6, 7, 9, 10–16]
Takhtajaniantha pusilla (Pall.) Nazarova [= *Scorzonera pusilla* Pall.] [8, 14]
Takhtajaniantha subacaulis (Regel) Zaika, Sukhor. & N.Kilian [= *Scorzonera subacaulis* (Regel) Lipsch.] [6]
Tanacetum alatavicum Herder [= *Pyrethrum alatavicum* O.Fedtsch. & B.Fedtsch.] [7]
 E *Tanacetum changaicum* (Krasch.) K.Bremer & Humphries [= *Pyrethrum changaicum* Krasch.] [3, 4, 7, 10]
Tanacetum crassipes (Stschegl.) Tzvelev [7]
Tanacetum krylovianum (Krasch.) K.Bremer & Humphries
 [= *Pyrethrum krylovianum* Krasch.] [7]

	<i>Tanacetum lanuginosum</i> Sch. [≡ <i>Pyrethrum lanuginosum</i> (Sch.Bip. & Herder) Tzvelev]	[1, 6, 7, 13]
SE	<i>Tanacetum pulchellum</i> Sch. [≡ <i>Pyrethrum pulchellum</i> Turcz.]	[7]
	<i>Tanacetum pulchrum</i> Sch. [= <i>Pyrethrum pulchrum</i> Ledeb.]	[3, 6, 7, 13]
	<i>Tanacetum tanacetoides</i> (DC.) Tzvelev	[2, 3, 6, 7]
	<i>Tanacetum vulgare</i> L. [= <i>Tanacetum boreale</i> Fisch. & DC.]	[1–7, 9]
	<i>Taraxacum armeriifolium</i> Soest	[3–5, 7, 9–14, 16]
	<i>Taraxacum asiaticum</i> Dahlst.	[4, 7, 8, 13]
	<i>Taraxacum atrans</i> Schischk.	[7, 13]
	<i>Taraxacum bessarabicum</i> (Hornem.) Hand.-Mazz.	[2–4, 7–10]
	<i>Taraxacum bicornе</i> Dahlst.	[1, 2, 3, 7, 9–12]
SE	<i>Taraxacum bornuurense</i> R.Doll	[3, 4, 6, 7]
	<i>Taraxacum brevirostre</i> Hand.-Mazz.	[3, 7, 13]
	<i>Taraxacum ceratophorum</i> (Ledeb.) DC. [= <i>Taraxacum altaicum</i> Schischk.]	[1–7, 9, 13, 14]
	<i>Taraxacum collinum</i> DC.	[3, 4, 6–10, 14]
	<i>Taraxacum dealbatum</i> Hand.-Mazz.	[1–4, 6–15]
	<i>Taraxacum dissectum</i> Ledeb.	[1–4, 6–10, 12, 13]
	<i>Taraxacum eriopodium</i> DC.	[6, 7, 13, 14]
	<i>Taraxacum erythrospermum</i> Andrz.	[3]
	<i>Taraxacum glabrum</i> DC.	[1–3, 6, 7, 14]
	<i>Taraxacum glaucanthum</i> Nakai	[3, 4, 8]
	<i>Taraxacum goloskokovii</i> Schischk.	[6, 7, 10, 13]
E	<i>Taraxacum inimitabile</i> Kirschner & Štěpánek	[13]
E	<i>Taraxacum junatovii</i> Tzvelev	[3, 7, 13, 14]
	<i>Taraxacum kok-saghyz</i> Rodin	[3, 7, 13]
SE	<i>Taraxacum krasnoborovii</i> Krasnikov	[7]
SE	<i>Taraxacum krylovii</i> Krasnikov & Khanm.	[7]
	<i>Taraxacum leucanthum</i> Ledeb.	[1–4, 6–8, 10–15]
	<i>Taraxacum linczevskyi</i> Schischk.	[7]
SE	<i>Taraxacum longicorne</i> Dahlst.	[1, 2, 5–10]
	<i>Taraxacum luridum</i> G.E.Haglund	[6, 7]
	<i>Taraxacum lyratum</i> (Ledeb.) DC.	[1, 3, 6, 7]
	<i>Taraxacum macilentum</i> Dahlst.	[1, 3, 6, 7]
	<i>Taraxacum microspermum</i> Schischk. [= <i>Taraxacum compactum</i> Schischk.]	[1, 2]
	<i>Taraxacum minutilobum</i> Popov	[7]
	<i>Taraxacum mongolicum</i> Hand.-Mazz.	[1–4, 6, 7, 10, 11, 13]
	<i>Taraxacum mongoliforme</i> R.Doll	[1, 2, 4, 7–11, 13, 15]
	<i>Taraxacum monochlamydeum</i> Hand.-Mazz.	[3, 4, 7, 12–15]
	<i>Taraxacum mujense</i> Petrochenko	[1, 2]
	<i>Taraxacum multisectum</i> Kitag.	[9]
	<i>Taraxacum officinale</i> F.H.Wigg.	[1, 2, 3, 4]

- Taraxacum parvulum* DC. [14]
Taraxacum pawlodarskum R.Doll [= *Taraxacum ustamenum* R.Doll] [7]
Taraxacum pingue Schischk. [1, 3, 6, 7]
Taraxacum pseudoatratum Orazova [6]
SE *Taraxacum pseudonivale* Malyshev [1]
Taraxacum puberulum G.E.Haglund [14]
SE *Taraxacum sangilense* Krasnob. & Khanm. [1, 2, 3, 4, 6, 7]
Taraxacum scariosum (Tausch) Kirschner & Štěpánek [= *Taraxacum stenolobum* Stschegl., *Taraxacum commixtiforme* Soest] [4, 8–10, 13, 14]
E *Taraxacum selengensis* Tzvelev [3]
Taraxacum sinicum Kitag. [= *Taraxacum borealisinense* Kitam.] [3–16]
SE *Taraxacum smirnovii* M.S.Ivanova [7]
SE *Taraxacum songoricum* Schischk. [6, 7, 13]
Taraxacum stanjukoviczii Schischk. [7, 13]
E *Taraxacum submacilentum* Tzvelev [7]
Taraxacum sumneviczii Schischk. [1, 7, 13]
Taraxacum tibetanum Hand.-Mazz. [13, 14]
Taraxacum turgaicum Schischk. [7, 13, 14]
SE *Taraxacum tuvense* Krasnob. & Krasnikov [1]
Tephroseris flammea (DC.) Holub [≡ *Senecio flammeus* DC.] [5]
Tephroseris integrifolia subsp. *atropurpurea* (Ledeb.) B.Nord. [1]
Tephroseris integrifolia (L.) Holub subsp. *integrifolia* [= *Senecio campestris* (Retz.) DC.] [1–4, 6–9, 13]
Tephroseris kirilowii (DC.) Holub [5]
Tephroseris palustris (L.) Rchb. [≡ *Senecio palustris* (L.) Hook.] [1, 2, 4–10]
SE *Tephroseris porphyrantha* (Schischk.) Holub [= *Senecio porphyranthus* Schischk.] [1, 7]
Tephroseris praticola (Sisk. & Serg.) Holub [= *Senecio asiatica* Schischk. & Serg.] [1, 2, 3, 7]
Tephroseris pricei (N.D.Simpson) Holub [≡ *Senecio pricei* N.D.Simpson] [1, 3, 6, 7, 13, 14]
SE *Tephroseris sukaczewii* (Schischk.) Holub [≡ *Senecio sukaczewii* Schischk.] [2, 4, 9]
Tephroseris turczaninovii (DC.) Holub [≡ *Senecio sumneviczii* Schischk. & Serg.] [1, 2, 3, 6, 7]
Tephroseris vereschaginii (Schischk. & Serg.) Holub [≡ *Senecio vereschaginii* Schischk. & Serg.] [7]
Tibetiodes flaccida (Bunge) G.L.Nesom [≡ *Erigeron flaccidus* (Bunge) Botsch.] [1, 2, 3, 4, 6, 7]
Tragopogon kasahstanicus S.A.Nikitin [7]
Tragopogon orientalis L. [6, 7]
Tragopogon ruber S.G.Gmel. [7, 14]
Tragopogon songoricus S.A.Nikitin [6, 7, 13, 14]
SE *Tragopogon trachycarpus* S.A.Nikitin [2–5, 7, 8, 13]

- Tripleurospermum ambiguum* (Ledeb.) Franch. & Sav.
 [= *Matricaria ambigua* (Ledeb.) Krylov] [6, 7]
Tripolium pannonicum (Jacq.) Dobrocz. [= *Tripolium pannonicum* Jacq.] [4, 9–13]
Trommsdorffia ciliata (Thunb.) Soják [= *Hypochaeris ciliata* (Thunb.) Makino] [5]
 SE *Tugarinovia mongolica* Iljin [11, 12, 13, 16]
Turczaninovia fastigiata (Fisch.) DC. [= *Aster fastigiatus* Fisch.] [2, 4]
Vickifunkia songarica (Fisch.) C.Ren [= *Ligularia songarica* (Fisch.) Y.Ling] [14]
Vickifunkia thomsonii (C.B.Clarke) C.Ren
 [= *Ligularia thomsonii* (C.B.Clarke) Pojark.] [14]
Vickifunkia thyrsoides (Ledeb.) C.Ren [= *Ligularia thyrsoides* (Ledeb.) DC.] [6, 7, 14]
- 29. Balsaminaceae** A.Rich. (1 genus and 2 species)
Impatiens noli-tangere L. [1, 2, 3, 4, 5, 9]
Impatiens parviflora DC. [7]
- 30. Berberidaceae** Juss. (1 genus and 2 species)
Berberis amurensis Rupr. [5]
Berberis sibirica Pall. [1–4, 6, 7, 9, 10, 13]
- 31. Betulaceae** Gray (2 genera and 9 taxa)
Alnus alnobetula subsp. *fruticosa* (Rupr.) Raus [1, 2, 4, 9]
Betula fruticosa Pall. [1, 2, 3, 4, 5, 6]
Betula mandshurica subsp. *tauschii* (Regel) Kamelin [4, 5]
Betula microphylla Bunge [1–4, 6–8, 10, 13, 14]
Betula nana subsp. *exilis* (Sukachev) Hultén [2, 3]
Betula nana subsp. *rotundifolia* (Spach) Malyshev [1, 2, 3, 6, 7]
Betula ovalifolia Rupr. [1–5, 7, 8, 13]
Betula pendula subsp. *mandshurica* (Regel) Ashburner & McAll. [1–5, 8, 13]
Betula pendula Roth subsp. *pendula* [2, 3, 4]
- 32. Biebersteiniaceae** Schnizl. (1 genus and 1 species)
Biebersteinia odora Stephan [6, 7]
- 33. Bignoniaceae** Juss. (1 genus and 1 species)
 SE *Incarvillea potaninii* Batalin [13, 15, 16]

34. Boraginaceae Juss. (24 genera and 78 taxa)

Note: Since Urgamal et al. (2014), several genera and species have been critically revised and updated by Ovczinnikova (2019a). Additionally, six new species of *Craniospermum* Lehm. have been described from Mongolia by Ovczinnikova and

Korolyuk (2016) and Ovcinnikova (2019b, 2020). We follow the treatment of Ovcinnikova (2019a). Furthermore, *Arnebia tibetica* previously known as a synonym of *A. guttata*, differs from *A. guttata* based on floral morphology and plastid genome characteristics discovered by Park et al. (2020).

	<i>Amblynotus rupestris</i> (Pall.) Popov [= <i>Eritrichium rupestre</i> (Georgi) Bunge]	[1–9, 13]
	<i>Anchusa arvensis</i> (L.) M.Bieb.	[7, 10, 11, 14]
SE	<i>Anoplocaryum compressum</i> Ledeb. [= <i>Echinospermum compressum</i> (Ledeb.) Turcz.]	[1, 2, 3, 6, 8]
E	<i>Anoplocaryum tenellum</i> A.L.Ebel & Rudaya [= <i>Microula tenella</i> (A.L.Ebel & Rudaya)]	[7]
SE	<i>Anoplocaryum turczaninovii</i> Krasnob.	[1, 3, 6, 7, 8, 10, 14]
	<i>Arnebia decumbens</i> Coss. & Kralik	[6, 7, 8, 13, 14]
	<i>Arnebia fimbriata</i> Maxim.	[11–13, 15, 16]
	<i>Arnebia guttata</i> Bunge	[3, 7, 10–16]
	<i>Arnebia tibetana</i> Kurz	[7]
	<i>Asperugo procumbens</i> L.	[3, 6, 7, 10, 14]
E	<i>Asperula gobicola</i> Grubov [= <i>Asperula saxicola</i> Grubov]	[13, 16]
SE	<i>Craniospermum canescens</i> DC.	[3, 7, 13, 14]
E	<i>Craniospermum desertorum</i> Ovcinnikova & A.Korolyuk	[7]
E	<i>Craniospermum gubanovii</i> Ovcinnikova	[14]
E	<i>Craniospermum kamelinii</i> Ovcinnikova	[7]
SE	<i>Craniospermum mongolicum</i> I.M.Johnst.	[7, 11–14]
E	<i>Craniospermum montanostepposum</i> Ovcinnikova	[7]
E	<i>Craniospermum pseudotuvanicum</i> Ovcinnikova & A.Korolyuk	[10]
SE	<i>Craniospermum tuvinicum</i> Ovcinnikova	[6, 7]
E	<i>Craniospermum volkovae</i> Ovcinnikova	[10]
	<i>Cynoglossum divaricatum</i> Steph.	[3, 4, 8, 9, 13, 14]
SE	<i>Eritrichium alpinum</i> Ovcinnikova	[6]
	<i>Eritrichium pauciflorum</i> DC.	[1–8, 13]
	<i>Eritrichium pectinatum</i> DC.	[3]
SE	<i>Eritrichium pulviniforme</i> Popov	[3, 10, 13]
SE	<i>Eritrichium sajanense</i> (Malysch.) Sipliv.	[1]
	<i>Eritrichium thymifolium</i> (DC.) Y.S.Lian & J.Q.Wang	[3, 4, 6–15]
	<i>Eritrichium tianschanicum</i> Iljin	[6]
	<i>Eritrichium villosum</i> (Ledeb.) Bunge [= <i>Myosotis villosa</i> Ledeb.]	[2, 3, 4, 6, 7, 14]
	<i>Hackelia deflexa</i> (Wahlenb.) Opiz [= <i>Myosotis deflexa</i> Wahlenb.]	[2–5, 7, 9, 10, 13]
	<i>Heliotropium ellipticum</i> Ledeb.	[6, 7, 15]
	<i>Lappula balchaschensis</i> Popov	[7, 13, 14, 15]
	<i>Lappula brachycentroides</i> Popov	[3]
	<i>Lappula consanguinea</i> Gürke	[2–4, 6, 7, 10, 11, 13, 14]
	<i>Lappula coronifera</i> Popov	[3]

	<i>Lappula duplicicarpa</i> Pavlov	[7, 12, 14]
SE	<i>Lappula granulata</i> (Krylov) Popov	[3, 7, 9, 10, 12]
	<i>Lappula heteracantha</i> (Ledeb.) Gürke	[7]
	<i>Lappula intermedia</i> (Ledeb.) Popov	[3, 4, 6, 7, 9, 14, 15]
	<i>Lappula krylovii</i> Ovczinnikova, Pjak & A.L.Ebel	[7]
	<i>Lappula macrantha</i> (Ledeb.) Gürke	[7, 14]
	<i>Lappula microcarpa</i> Gürke	[7, 10]
	<i>Lappula myosotis</i> Wolf	[2–5, 8, 9, 13]
	<i>Lappula patula</i> Asch.	[3, 15]
	<i>Lappula redowskii</i> (Hornem.) Greene	[1–4, 8, 9, 11–13]
	<i>Lappula semiglabra</i> (Ledeb.) Gürke	[7, 11, 14, 15]
	<i>Lappula stricta</i> (Ledeb.) Gürke	[3, 7–12, 14, 15]
	<i>Lappula tadshikorum</i> Popov	[7]
	<i>Lappula tenuis</i> Gürke	[14, 15]
	<i>Lappula tianschanica</i> Popov & Zakirov	[7]
	<i>Lappula tuvinica</i> Ovczinnikova	[6]
	<i>Lindelofia stylosa</i> (Kar. & Kir.) Brand [= <i>Cynoglossum stylosum</i> Kar. & Kir.]	[7, 10, 11, 14]
	<i>Mertensia davurica</i> (Sims) G.Don [= <i>Mertensia ochroleuca</i> Ikonn.-Gal.]	[1, 2, 3, 4]
	<i>Mertensia pallasii</i> G.Don	[7]
	<i>Mertensia stylosa</i> DC.	[1, 2, 3]
	<i>Mertensia tarbagataica</i> B.Fedtsch.	[7]
SE	<i>Microula tibetica</i> var. <i>pratensis</i> (Maxim.) W.T.Wang [= <i>Tretocarya pratensis</i> Maxim.]	[3, 7]
	<i>Myosotis alpestris</i> F.W.Schmidt	[1–4, 6, 7, 9, 14]
	<i>Myosotis austrosibirica</i> O.D.Nikif.	[7, 13]
	<i>Myosotis baltica</i> Sam.	[3, 5]
	<i>Myosotis caespitosa</i> Schultz	[2–5, 9, 10, 14]
	<i>Myosotis krylovii</i> Serg.	[1–4, 6, 7, 13]
	<i>Myosotis scorpioides</i> L.	[2]
	<i>Myosotis stricta</i> Link	[7]
	<i>Nonea caspica</i> G.Don	[7, 10, 11, 14, 15]
	<i>Nonea pulla</i> DC.	[2, 4, 8, 9, 14]
	<i>Nonea rossica</i> Steven	[3]
	<i>Onosma fuyunensis</i> Y.He & Q.R.Liu	[7]
	<i>Onosma gmelinii</i> Ledeb.	[7, 14]
	<i>Onosma setosa</i> Ledeb. subsp. <i>setosa</i>	[7]
	<i>Onosma setosa</i> subsp. <i>transrhyminensis</i> (Klokov) Kamelin	[3, 7, 10]
	<i>Pseudolappula occultata</i> (Popov) Q.R.Liu & D.H.Liu	[14]
	[= <i>Lappula occultata</i> Popov]	[14]
	<i>Pulmonaria dacica</i> (Simonk.) Simonk. [= <i>Pulmonaria mollissima</i> A.Kern.]	[2, 4]
	<i>Rindera tetraspis</i> Pall.	[14]

<i>Rochelia bungei</i> Trautv.	[3, 6, 14]
<i>Rochelia leiocarpa</i> Ledeb.	[6, 14]
<i>Stenosolenium saxatile</i> (Pall.) Turcz. [≡ <i>Anchusa saxatilis</i> Pall.]	[3, 4, 10]
<i>Tournefortia sibirica</i> L. [= <i>Messerschmidia sibirica</i> (L.) L.]	[5, 8–13, 16]

35. Brassicaceae Burnett (51 genera and 138 taxa)

Note: The updated checklist and taxonomic notes of Brassicaceae was recently revised by German (2015). In this study, we followed German (2015) where the names of several species and genera changed compared to Urgamal et al (2014). Since 2015, several new records of this family have been found in the flora of Mongolia (Dorofeyev 2019; Dorofeyev and Ekhmaa 2020). For example, *Lepidium gobicum* V.I.Dorof. was newly described from Mongolia and China by Dorofeyev (2019); however, this species should be referred to *Lepidium apetalum* Willd. (German 2020).

<i>Alyssum desertorum</i> Stapf	[3, 6, 7, 8, 10]
<i>Alyssum lenense</i> Adams	[1–5, 7, 8, 9]
<i>Aphragmus involucratus</i> O.E.Schulz	[7, 13]
<i>Arabidopsis thaliana</i> (L.) Heynh.	[6, 7]
<i>Arabis borealis</i> Andrz.	[2, 3, 4, 5, 9]
<i>Barbarea orthoceras</i> Ledeb.	[2, 3, 4, 5, 9]
<i>Barbarea vulgaris</i> W.T.Aiton	[2, 3, 4, 5, 7]
<i>Braya humilis</i> (C.A.Mey.) B.L.Rob. [= <i>Neotorularia grubovii</i> (Botsch.) Botsch., <i>Neotorularia mongolica</i> Botsch. & Gubanov]	[1, 3, 4, 6, 7, 8]
<i>Braya rosea</i> Bunge	[1, 3, 6, 7]
<i>Braya siliquosa</i> Bunge	[1]
<i>Camelina microcarpa</i> Andrz.	[4, 6, 14]
<i>Capsella bursa-pastoris</i> (L.) Medik.	[2–4, 6, 7, 10, 14]
<i>Capsella orientalis</i> Klokov [≡ <i>Capsella bursa-pastoris</i> subsp. <i>orientalis</i> (Klokov) Tzvelev]	[7, 10]
<i>Cardamine bellidifolia</i> L.	[1, 2, 3, 7]
<i>Cardamine impatiens</i> L.	[6]
<i>Cardamine leucantha</i> (Tausch) O.E.Schulz	[5]
<i>Cardamine macrophylla</i> Willd.	[1, 2, 6, 7]
<i>Cardamine parviflora</i> L.	[2, 3]
<i>Cardamine pratensis</i> L.	[1–5, 7, 9]
<i>Cardamine prorepens</i> Fisch.	[5]
<i>Cardamine trifida</i> (Lam.) B.M.G.Jones	[5]
<i>Catolobus pendulus</i> (L.) Al-Shehbaz [= <i>Arabis pendula</i> L.]	[1–6, 8, 9, 10, 12, 13]
<i>Chorispora bungeana</i> Fisch. & C.A.Mey.	[7]
<i>Chorispora sibirica</i> (L.) DC.	[6, 7, 13, 14]
<i>Chorispora tenella</i> (Pall.) DC.	[7, 14]
<i>Clausia aprica</i> Trotzky	[1–4, 6, 7, 9]

- Clausia trichosepala* (Turcz.) F.Dvořák [4]
Crucihimalaya mollissima (C.A.Mey.) Al-Shehbaz [= *Sisymbrium mollissimum* C.A.Mey.] [6, 7, 9, 13, 14]
SE *Crucihimalaya rupicola* (Krylov) A.L.Ebel & D.A.German [= *Arabis rupicola* Krylov] [6, 7, 10, 11, 13, 14]
Dendroarabis fruticulosa (C.A.Mey.) D.A.German & Al-Shehbaz [= *Arabis fruticulosa* C.A.Mey.] [1, 7]
Descurainia sophia (L.) Webb [1–10, 12–14]
SE *Dontostemon crassifolius* (Bunge) Maxim. [7, 10–16]
Dontostemon dentatus Ledeb. [5]
SE *Dontostemon elegans* Maxim. [6, 7, 10, 11, 13–16]
E *Dontostemon gubanovii* (D.A.German) D.A.German [= *Dontostemon senilis* subsp. *gubanovii* D.A.German] [6, 7, 10]
Dontostemon integrifolius (L.) Ledeb. [1–13, 16]
Dontostemon micranthus C.A.Mey. [1–5, 8, 9, 13]
SE *Dontostemon perennis* C.A.Mey. [3, 5–8, 10–13, 15]
Dontostemon pinnatifidus (Willd.) Al-Shehbaz & H.Ohba [= *Cheiranthus pinnatifidus* Willd.] [1, 3, 4, 8, 13]
SE *Dontostemon senilis* Maxim. [6, 7, 8, 10–16]
Draba alpina L. [6]
Draba altaica (C.A.Mey.) Bunge [6, 7, 13]
SE *Draba baicalensis* Tolm. [3, 6, 7]
Draba eriopoda Turcz. [1, 2, 3, 6]
Draba fladnizensis Wulfen [1, 2, 3, 6, 7, 13]
Draba hirta L. [1, 2, 3, 6, 7, 13]
Draba kusnetzovii (Turcz.) Hayek [1, 3, 6, 7, 13]
Draba lanceolata Royle [1–4, 6, 7, 13]
Draba mongolica Turcz. [1, 3]
Draba nemorosa L. [1–10, 13]
Draba ochroleuca Bunge [1, 3, 6, 7, 13]
Draba oreades Schrenk [1, 3, 6, 7, 13]
SE *Draba pygmaea* Turcz. [1, 3, 6]
Draba sibirica (Pall.) Thell. [3, 7]
Draba stenocarpa Hook.f. & Thomson [7]
Draba subamplexicaulis C.A.Mey. [1–3, 6, 7, 13, 14]
Draba turczaninowii Pohle [1, 6, 7, 13]
Erysimum andrzejowskianum Bess. [7]
Erysimum cheiranthoides subsp. *altum* Ahti [without indication of regions]
Erysimum cheiranthoides L. subsp. *cheiranthoides* [1–5, 7–11, 13, 14]
Erysimum cheiranthoides subsp. *transiliense* (Popov) D.A.German [= *Erysimum transiliense* Popov] [7]
Erysimum flavum (Georgi) Bobrov subsp. *flavum* [1–5, 8, 9, 12]
Erysimum flavum subsp. *altaicum* (C.A.Mey.) Polozhij [3, 6, 7, 10]

- SE *Erysimum kotuchovii* D.A.German [7]
Erysimum ledebourii D.A.German [7]
Erysimum marschallianum Andr. [2–4, 6, 7, 10, 13, 14]
SE *Erysimum mongolicum* D.A.German [7, 14]
Erysimum sisymbrioides C.A.Mey. [6, 7, 15]
Eutrema edwardsii subsp. *compactum* (O.E.Schulz) A.L.Ebel [= *Eutrema compactum* O.E.Schulz] [7]
Eutrema edwardsii R.Br. subsp. *edwardsii* [1–3, 6, 7, 13]
Eutrema salsugineum (Pall.) Al-Shehbaz & Warwick
[= *Sisymbrium salsugineum* Pall.] [3, 4, 6–10]
E *Galitzkya macrocarpa* (Ikonn.-Gal.)Botsch. [= *Berteroa macrocarpa* Ikonn.-Gal.] [13, 15]
SE *Galitzkya potaninii* (Maxim.)Botsch. [7, 14, 15]
SE *Goldbachia ikonnikovii* Vassilcz. [6, 7, 8, 10, 11, 13, 14]
*Goldbachia pendula*Botsch. [7, 14]
Hesperis sibirica L. [1, 2, 3, 4, 7]
Hornungia procumbens Hayek [3, 6, 7, 10, 11, 14]
Iljinskaea planisiliqua (Fisch. & C.A.Mey.) Al-Shehbaz
[= *Conringia planisiliqua* Fisch. & C.A.Mey.] [6, 14]
Isatis costata C.A.Mey. [2–4, 6–9, 11–14]
Isatis gymnocarpa (Fisch.) Al-Shehbaz, Moazzeni & Mumm.
[= *Tauscheria gymnocarpa* Fisch.] [14]
Isatis multicaulis (Kar. & Kir.) Jafri [14]
Isatis oblongata DC. [1, 3, 4, 6–9, 13]
Leiocarpacea cochlearioides (Murray) D.A.German & Al-Shehbaz
[= *Bunias cochlearioides* Murray] [1]
Leiospora exscapa (C.A.Mey.) F.Dvořák [= *Parrya exscapa* C.A.Mey.] [1, 6, 7]
Lepidium affine Ledeb. [= *Lepidium latifolium* subsp. *affine* (Ledeb.) Kitag.] [4, 9, 14]
Lepidium amplexicaule Willd. [3, 7–11, 14, 15]
Lepidium apetalum Willd. [1–5, 7–15]
Lepidium appelianum Al-Shehbaz [7, 10, 11, 14–16.]
Lepidium cartilagineum Thell. [5–8, 10, 12, 14]
Lepidium cordatum Willd. [6–11, 13–16]
Lepidium lacerum C.A.Mey. [= *Lepidium songaricum* Schrenk] [7, 14]
Lepidium obtusum Basiner [6, 7, 10, 14, 15]
Litwinowia tenuissima (Pall.) Woronow [14]
Macropodium nivale R.Br. [1, 7]
Matthiola superba Conti [14]
Megacarpaea megalocarpa Schischk. [14]
Meniocus linifolius (Willd.) DC. [= *Alyssum linifolium* Willd.] [3, 5, 7]
SE *Microstigma brachycarpum* Botsch. [6, 7, 15, 16]

- SE *Microstigma deflexum* (Bunge) Juz. [3, 6, 7, 12, 13, 15, 16]
Neotorularia brevipes (Kar. & Kir.) Hedge & J.Léonard [= *Sisymbrium brevipes* F.Muell.] [7, 14]
Noccaea ferganensis (N.Busch) Czerep. [= *Thlaspi ferganense* N.Busch] [7]
Noccaea thlaspidioides (Pall.) F.K.Mey.
 [= *Lepidium thlaspidioides* Pall. = *Thlaspi cochleariforme* DC.] [1–9, 13]
Odontarrhena obovata C.A.Mey. [= *Alyssum obovatum* (C.A.Mey.) Turcz.] [1–10]
Olimarabidopsis pumila (Stephan) Al-Shehbaz
 [= *Sisymbrium pumilum* Stephan] [14]
- SE *Pachyneurum grandiflorum* Bunge [1, 3, 6, 7, 13]
Pugionium dolabratum Maxim. [11, 12, 13, 16]
- SE *Pugionium pterocarpum* Kom. [10]
Rhammatophyllum erysimoides (Kar. & Kir.) Al-Shehbaz & O.Appel
 [= *Arabis erysimoides* Kar. & Kir.] [7, 14]
Rorippa barbareaifolia (DC.) Kitag. [2]
Rorippa dogadovae Tzvelev [3, 11]
Rorippa palustris Besser [1–11, 13, 14]
Sisymbrium brassiciforme C.A.Mey. [7, 9, 14, 15]
Sisymbrium heteromallum C.A.Mey. [2–4, 6–8, 10–14]
Sisymbrium loeselii L. [3, 4, 14]
Sisymbrium polymorphum (Murr.) Roth [3, 4, 6–10, 14]
Sisymbrium subspinescens Bunge [14]
Smelowskia alba (Pall.) B.Fedtsch. [1, 3, 4, 6, 7, 10, 13, 14]
- SE *Smelowskia altaica* (Pobed.) Botsch. [6, 7]
Smelowskia bifurcata (Ledeb.) Botsch. [1, 3]
Smelowskia calycina (Stephan) C.A.Mey. [= *Lepidium calycinum* Steph.] [1, 3, 6, 7, 13, 14]
- SE *Smelowskia calycina* subsp. *pectinata* (Bunge) D.A.German [= *Hutchinsia pectinata* Bunge] [3, 7, 13, 14]
- E *Smelowskia mongolica* Kom. [3]
- SE *Sterigmostemum violaceum* (Botsch.) H.L.Yang [= *Oreoloma violaceum* Botsch., = *Sterigmostemum regeliorum* Kamelin & D.German] [7, 14]
Stevenia alyssoides Adams & Fisch. [1, 3]
- SE *Stevenia alyssoides* subsp. *zinaidae* (Malyshev) Kamelin [= *Stevenia zinaidae* Malyshev] [1, 3]
Stevenia canescens (DC.) D.A.German
 [= *Alyssum canescens* DC. = *Ptilotrichum canescens* (DC.) C.A.Mey.] [1–4, 6–9, 11–16]
- SE *Stevenia cheiranthoides* DC. subsp. *cheiranthoides* [4, 5, 6, 7, 9]
Stevenia cheiranthoides subsp. *incarnata* (Kamelin) D.A.German [1–4, 6–8, 10]
- SE *Stevenia dahurica* (Peschkova) D.A.German & Al-Shehbaz [= *Alyssum dahuricum* (Peschkova) Al-Shehbaz, *Ptilotrichum dahuricum* Peschkova] [4, 5, 8, 9]

- SE *Stevenia sergievskajae* (Krasnob.) Kamelin & Gubanov [= *Alyssum sergievskajae* Krasnob.] [3]
- SE *Stevenia tenuifolia* (Stephan) D.A.German [= *Alyssum tenuifolium* Steph.] [2–10, 12–15]
- Strigosella africana* (L.) Botsch. [10, 11]
- Strigosella brevipes* (Bunge) Botsch. [14]
- Subularia aquatica* L. [3, 6]
- Tetracme quadricornis* (Steph.) Bunge [7, 14]
- Thlaspi arvense* L. [1–4, 6, 7, 13, 14]
- Thlaspi ceratocarpum* (Pall.) Murray [6, 10, 14]
[≡ *Carpoceras ceratocarpum* (Pall.) N. Busch]
- Turritis glabra* L. [7]
- 36. Butomaceae** Mirb. (1 genus and 2 species)
- Butomus junceus* Turcz. [1, 8, 9, 10, 14]
- Butomus umbellatus* L. [1–5, 8, 9, 14]
- 37. Campanulaceae** Juss. (4 genera and 18 taxa)
- E *Adenophora changaica* Gubanov & Kamelin [3]
- Adenophora gmelinii* Fisch. [4, 5, 9]
- Adenophora lamarkii* Fisch. [= *Campanula lamarckii* D.Dietr.] [2, 3, 4, 6]
- Adenophora liliifolia* (L.) A.DC. [= *Campanula liliifolia* L.] [2, 6, 8]
- Adenophora pereskiifolia* (Fisch.) G.Don [4, 5, 9]
- Adenophora stenanthina* (Ledeb.) Kitagawa [= *Adenophora crispata* Turcz.] [1–5, 8, 9, 13]
- Adenophora tricuspidata* A.DC. [2, 4, 5, 9]
- Adenophora triphylla* (Thunb.) A.DC. [= *Campanula triphylla* Thunb.] [2, 4, 9]
- Campanula cervicaria* L. [2]
- Campanula dasyantha* M.Bieb. [1, 2]
- Campanula glomerata* L. [1–7, 9]
- Campanula punctata* Lam. [9]
- Campanula rotundifolia* L. [6]
- Campanula stevenii* subsp. *altaica* (Ledeb.) Fed. [= *Campanula altaica* Ledeb.] [7]
- Campanula stevenii* subsp. *turczaninovii* (Fed.) Victorov [1, 2, 3, 6, 13]
[≡ *Campanula turczaninovii* Fed.]
- Campanula stevenii* subsp. *wolgensis* (P.A.Smirn.) Fed. [7]
[≡ *Campanula wolgensis* P.A.Smirn.]
- Codonopsis clematidea* C.B.Clarke [7]
- Platycodon grandiflorus* A.DC. [5]
- 38. Caprifoliaceae** Juss. (5 genera and 24 taxa)
- Linnaea borealis* L. [1, 7, 13, 14]

- Lonicera caerulea* subsp. *altaica* (Pall.) Gladkova [= *Lonicera altaica* Pall.] [1–4, 6, 7, 13, 14]
Lonicera caerulea L. subsp. *caerulea* [6]
Lonicera caerulea var. *venulosa* (Maxim.) Vorosch. [= *Lonicera venulosa* Maxim.] [5]
Lonicera chrysantha Turcz. [5]
Lonicera hispida Pall. [3, 6, 7, 13, 14]
Lonicera microphylla Willd. [= *Caprifolium microphyllum* (Willd.) Kuntze] [3, 6, 7, 9, 10, 13, 14, 16]
Lonicera tatarica L. [4]
Patrinia heterophylla Bunge [9]
Patrinia intermedia Roem. & Schult. [3, 6, 7, 14]
Patrinia rupestris (Pall.) Dufr. [= *Valeriana rupestris* Pall.] [1–5, 8, 9]
Patrinia scabiosifolia Fisch. [4, 5]
Patrinia sibirica (L.) Juss. [1–7]
Scabiosa comosa Fisch. [1–5, 8, 9]
Scabiosa ochroleuca L. [3, 10]
Valeriana altaica Sumnev. [1, 2]
Valeriana alternifolia Ledeb. [= *Valeriana dahurica* Sumnev.] [1–6, 9]
Valeriana capitata Pall. [1]
Valeriana dubia Bunge [1, 3, 6, 7, 14]
Valeriana martjanovi Krylov [= *Valeriana saichanensis* Kom.] [13]
Valeriana officinalis L. [1, 2, 3, 4, 8, 9]
Valeriana petrophila Bunge [1, 3, 6, 7, 13]
SE *Valeriana tangutica* Batalin [16]
SE *Valeriana transjensis* Kreyer [1, 3, 7]

39. Caryophyllaceae Juss. (20 genera and 97 taxa)

- Acanthophyllum pungens* Boiss. [6, 7, 14]
Arenaria leptoclados Guss. [7]
Arenaria serpyllifolia L. [7, 14]
Cerastium alpinum L. [6]
Cerastium arvense L. [1–10, 13, 14]
Cerastium cerastoides (L.) Britton [= *Dichodon cerastoides* (L.) Rchb.
 [= *Stellaria cerastoides* L.] [1–7, 10, 14]
Cerastium davuricum Fisch. [2, 4, 7, 14]
Cerastium falcatum (Gren.) Bunge [= *Stellaria falcata* Ser.] [14]
Cerastium holosteoides Fr. [= *Cerastium fontanum* f. *holosteoides* (Fr.)
 M.B.Wyse Jacks.] [2]
Cerastium lithospermifolium Fisch. [1, 3, 6, 7, 10, 13]
Cerastium maximum L. [13]
Cerastium pauciflorum Steven [1, 2, 3, 6, 7]
Cerastium pusillum Ser. [1, 2, 3, 6, 7, 14]

- Cherleria arctica* (Steven) A.J.Moore & Dillenb.
[≡ *Minuartia arctica* (Steven) Graebn.] [1, 2, 3, 4, 6, 7]
- Cherleria biflora* (L.) A.J.Moore & Dillenb.
[≡ *Minuartia biflora* (L.) Schinz & Thell.] [1, 2, 3, 6, 7]
- Dianthus chinensis* L. [= *Dianthus versicolor* Fisch.] [1–11, 13]
- Dianthus crinitus* subsp. *soongoricus* (Schischk.) Kozhevn.
[≡ *Dianthus soongoricus* Schischk.] [7, 14]
- Dianthus ramosissimus* Pall. [10]
- Dianthus repens* Willd. [≡ *Dianthus chinensis* subsp. *repens* (Willd.) Vorosch.] [6, 7]
- Dianthus superbus* L. [1–10, 13]
- Eremogone androsacea* (Grubov) Ikonn. [≡ *Arenaria androsacea* Grubov] [13]
- Eremogone asiatica* (Schischk.) Ikonn. [≡ *Arenaria asiatica* Schischk.] [7]
- Eremogone capillaris* (Poir.) Fenzl [≡ *Arenaria capillaris* Poir.] [1–10, 12, 13]
- Eremogone juncea* (M.Bieb.) Fenzl [≡ *Arenaria juncea* M.Bieb.] [4, 5, 9]
- Eremogone meyeri* (Fenzl) Ikonn. [≡ *Arenaria meyeri* Fenzl] [2–4, 6, 7, 9, 10, 12, 13]
- SE *Eremogone mongolica* (Schischk.) Ikonn. [≡ *Arenaria mongolica* Schischk.] [7]
- SE *Gymnocarpos przewalskii* Maxim. [≡ *Paronychia przewalskii* (Bunge) Rohweder & Urmi-König] [12, 14, 16]
- Gypsophila altissima* L. [7]
- Gypsophila capituliflora* Rupr. [7, 13, 14, 15]
- Gypsophila cephalotes* (Schrenk) F.N.Williams [6, 7]
- Gypsophila davurica* Fenzl
[≡ *Gypsophila patrinii* subsp. *davurica* (Fenzl) Kozhevn.] [2–5, 8, 9, 13]
- Gypsophila paniculata* L. [3, 4, 7, 10]
- Gypsophila patrinii* Ser. [1, 3, 4, 6–8, 10, 11]
- Gypsophila perfoliata* L. [10]
- Gypsophila sericea* (Ser.) Krylov [≡ *Arenaria sericea* Ser.] [7]
- Herniaria caucasica* Rupr. [7]
- Herniaria glabra* L. [7]
- Heterochroa desertorum* Bunge [≡ *Gypsophila desertorum* Fenzl] [1–4, 6–13, 16]
- Lepyrodiclis holosteoides* (C.A.Mey.) Fenzl [≡ *Gouffeia holosteoides* C.A.Mey.] [3, 10]
- Moehringia lateriflora* (L.) Fenzl [≡ *Arenaria lateriflora* L.] [1–5, 7, 9, 13]
- Moehringia umbrosa* (Bunge) Fenzl [≡ *Arenaria umbrosa* Bunge] [1, 2, 6, 7]
- Pseudocherleria laricina* (L.) Dillenb. & Kadereit
[≡ *Minuartia laricina* Mattf.] [4, 5]
- Pseudostellaria rupestris* (Turcz.) Pax [1–4, 7, 13]

- Sabulina regeliana* (Trautv.) Dillenb. & Kadereit
 [= *Minuartia regeliana* (Trautv.) Mattf.] [3]
Sabulina stricta (Sw.) Rchb. [= *Minuartia stricta* (Sw.) Hiern] [1, 2, 3]
Sabulina verna Rchb. [= *Minuartia verna* (L.) Hiern] [1–3, 6, 7, 14]
Sagina saginoides (L.) H.Karst. [7]
Saponaria floribunda (Kar. & Kir.) Boiss.
 [= *Psammophiliella floribunda* (Kar. & Kir.) Ikonn.] [14]
Silene alexandrae B.Keller [14]
Silene altaica Pers. [7, 13, 14]
Silene aprica Turcz. [= *Ussuria aprica* (Turcz.) Tzvelev] [1–5, 7–10, 12, 13]
Silene borysthenica (Gruner) Walters [3, 10]
Silene bungei Bocquet [1, 2, 3, 6]
Silene chamarensis Turcz. [= *Silene tenuis* subsp. *chamarensis*
 (Turcz.) Kozhevn.] [1–3, 6, 7, 9, 10, 12, 13]
Silene conoidea L. [7]
Silene foliosa Maxim. [4, 12, 13]
Silene graminifolia Otth [= *Silene sobolevskajae* Czerep.] [2, 6, 7, 10, 14]
Silene gubanovii Lazkov [6, 7, 13, 14]
 SE *Silene intramongolica* Lazkov [7, 14]
Silene jeniseensis Willd. [= *Silene iche-bogdo* Grubov] [1–6, 8, 9, 13]
Silene latifolia subsp. *alba* (Mill.) Greuter & Burdet [= *Lychnis alba* Mill.] [7]
 E *Silene mongolica* Maxim. [10, 13]
Silene quadriloba Turcz. [2, 3, 7, 10, 14]
Silene repens Patrin [1–10, 12–14]
Silene samojedorum (Sambuk) Oxelman
 [= *Lychnis sibirica* subsp. *samojedorum* Sambuk.] [1, 2, 3, 4, 5, 9]
Silene sibirica Pers. [14]
Silene songarica (Fisch., C.A.Mey. & Avé-Lall.) Bocquet [= *Gastrolychnis*
brachypetala (Hornem.) Tolm. & Kozhanczikov] [1–7, 9, 12, 13]
Silene suaveolens Kar. & Kir. [= *Carpophora suaveolens* (Kar. & Kir.) Tzvelev
 = *Melandrium suaveolens* (Kar. & Kir.) Schischk,] [7, 10, 14]
Silene uralensis (Rupr.) Bocquet [1–3, 6, 7, 10, 13, 14]
Silene violascens (Tolm.) V.V.Petrovsky & Elven
 [= *Gastrolychnis violascens* Tolm.] [7]
Silene viscosa Schleich. [3, 7, 10, 14]
Silene vulgaris (Moench) Garcke [= *Behen vulgaris* Moench] [2, 4, 6, 7]
Spergularia marina (L.) Besser
 [= *Arenaria rubra* var. *marina* L.] [4, 5, 7, 10–15]
Spergularia segetalis G.Don [14]
Stellaria alsinoides Boiss. & Buhse [7, 14]
Stellaria amblyosepala Schrenk [7, 10–16]
Stellaria brachypetala Bunge [= *Stellaria alata* Popov,
Stellaria brachypetala var. *alata* (Popov) Kozhevn.] [1, 3–7, 9, 11, 13, 14]

- Stellaria bungeana* Fenzl [= *Hylebia bungeana* (Fenzl) Tzvelev] [2, 3, 6, 7, 9]
Stellaria cherleriae (Fisch.) F.N.Williams [= *Arenaria cherleriae* Fisch.] [1–9, 13]
Stellaria crassifolia Ehrh. [1–11, 14]
Stellaria davurica Willd. [1–4, 7, 14]
Stellaria depressa Schmid [7]
Stellaria dichotoma L. [1–14]
Stellaria dichotoma var. *lanceolata* Bunge [= *Stellaria gypsophiloides* Fenzl] [3, 7–9, 11–13, 15, 16]
Stellaria discolor Turcz. [4, 5, 9]
Stellaria filicaulis Makino [2, 3]
Stellaria imbricata Bunge [6, 7, 14]
Stellaria irrigua Bunge [1–4, 6, 7, 13]
Stellaria longifolia Muhl. [1, 2, 3, 4, 5, 9]
Stellaria longipes Goldie [= *Stellularia longipes* (Goldie) MacMill.] [1 – 3 , 5–7, 9]
Stellaria martjanovii Krylov [= *Mesostemma martjanovii* (Krylov) Ikonn.] [7]
Stellaria media (L.) Vill. [= *Alsine media* L.] [2, 3]
Stellaria palustris Ehrh. [2, 3, 7, 9]
Stellaria petraea Bunge [1–4, 6, 7, 13]
Stellaria pulvinata Grubov [6, 7]
Stellaria radians L. [5, 9]
Stellaria zolotuchinii A.L.Ebel [= *Stellaria glandulifera* N.Zolot. nom. illegit.] [3, 10]

40. Celastraceae R.Br. (2 genera and 3 species)

- Euonymus maackii* Rupr. [5, 9]
Parnassia laxmannii Pall. [1–4, 6, 10]
Parnassia palustris L. [1–11, 14]

41. Ceratophyllaceae Gray (1 genus and 2 taxa)

- Ceratophyllum demersum* L. [1, 4, 8–10, 14]
Ceratophyllum platyacanthum subsp. *oryzatorum* (Kom.) Les [10]

42. Cleomaceae Bercht. & J.Presl (1 genus and 1 species)

- E *Cleome gobica* Grubov [15]

43. Convolvulaceae Juss. (4 genera and 15 species)

- Calystegia hederacea* Wall. [12, 13]
Calystegia pellita G.Don [= *Calystegia dahurica* Herb.] [1, 3, 4]
Calystegia sepium (L.) R.Br. [= *Convolvulus sepium* L.] [14]
Calystegia subvolubilis G.Don [2, 3]

- Convolvulus ammannii* Desr. [2, 3, 4, 6–14, 16]
Convolvulus arvensis L. [2, 3, 4, 7–16]
Convolvulus fruticosus Pall. [7, 10–16]
Convolvulus gortschakovii Schrenk [7, 8, 10, 11, 13–16]
Convolvulus tragacanthoides Turcz. [12, 16]
Cuscuta australis R.Br. [9]
Cuscuta chinensis Lam. [4, 9, 12, 13, 15, 16]
Cuscuta europaea L. [3–7, 9, 13, 14]
Cuscuta lupuliformis Krock. [6, 7, 10, 14]
Cuscuta monogyna Vahl [= *Monogynella monogyna* (Vahl) Hadač] [4, 5, 8, 14]
Merremia sibirica (L.) Hallier f. [3]
- 44. Cornaceae** Bercht. & J.Presl (1 genus and 1 species)
Cornus alba L. [1, 2, 3, 4, 5, 9]
- 45. Crassulaceae** J.St.-Hil. (6 genera and 17 taxa)
Crassula aquatica (L.) Schönland [2, 4, 6, 10]
Hylotelephium ewersii (Ledeb.) H.Ohba [= *Sedum ewersii* Ledeb.] [6, 7, 14]
Hylotelephium pallescens (Freyn) H.Ohba [2, 3, 4, 5]
Hylotelephium telephium (L.) H.Ohba [= *Sedum telephium* L.] [1–10]
Orostachys fimbriata (Turcz.) A.Berger [= *Cotyledon fimbriata* Turcz.] [2–6, 8–13]
Orostachys malacophylla (Pall.) Fisch. [= *Cotyledon malacophylla* Pall.] [1–5, 8, 9]
Orostachys spinosa (L.) Sweet [= *Cotyledon spinosa* L.] [1–4, 6–15]
Orostachys thyrsiflora Fisch. [1, 3–11, 13–15]
Phedimus aizoon (L.) 't Hart [= *Sedum aizoon* L.] [1–14]
Phedimus hybridus (L.) 't Hart [= *Sedum hybridum* L.] [1, 3–9, 12]
Pseudosedum lievenii A.Berger [7, 14]
Rhodiola algida (Ledeb.) Fisch. & C.A.Mey. [6, 7]
Rhodiola coccinea (Royle) Boriss. [7]
Rhodiola litwinowii Boriss. [3, 6, 7, 10]
Rhodiola quadrifida (Pall.) Fisch. & C.A.Mey. [1–3, 6, 7, 13]
Rhodiola rosea L. [= *Sedum roseum* (L.) Scop.] [1–8, 13, 14]
Rhodiola stephani (Cham.) Trautv. & C.A.Mey. [= *Rhodiola krylovii* Polozhij & Revjakina = *Rhodiola pinnatifida* Boriss. = *Rhodiola subpinnata* (Krasnob.) Krasnob.] [1, 2, 6, 7, 10]
- 46. Cynomoriaceae** Endl. (1 genus and 1 species)
Cynomorium songaricum Rupr. [= *Cynomorium coccineum* subsp. *songaricum* (Rupr.) J.Léonard] [10–16]

47. Cyperaceae Juss. (10 genera and 131 taxa)

Note: To date, eight species of *Kobresia* Willd. have been recorded in Mongolia (Nyambayar 2009b; Urgamal et al. 2014), and they were recently transferred to the genus *Carex* L. (Global Carex Group 2015).

<i>Blysmus compressus</i> L. subsp. <i>brevifolius</i> (Decne.) Kukkonen	[2–5, 7–9, 11, 13, 14]
<i>Blysmus rufus</i> Link	[1, 3–15]
<i>Bolboschoenus maritimus</i> (L.) Palla [≡ <i>Scirpus maritimus</i> L.]	[14, 16]
<i>Bolboschoenus maritimus</i> subsp. <i>affinis</i> (Roth) T.Koyama [= <i>Bolboschoenus popovii</i> T.V.Egorova]	[10–16]
<i>Bolboschoenus planiculmis</i> (F.Schmidt) T.V.Egorova	[4, 5, 8–12, 15]
<i>Carex accrescens</i> Ohwi [= <i>Carex pallida</i> C.A.Mey.]	[2]
<i>Carex acuta</i> L.	[2, 3, 14]
<i>Carex alatauensis</i> S.R.Zhang [= <i>Kobresia humilis</i> (C.A.Mey.) Serg.]	[3, 6, 7, 11, 13]
<i>Carex alba</i> Scop.	[1, 2]
<i>Carex altaica</i> (Gorodkov) V.I.Krecz. [≡ <i>Carex orbicularis</i> subsp. <i>altaica</i> (Gorodkov) T.V.Egorova]	[3]
<i>Carex amgunensis</i> F.Schmidt [= <i>Carex chloroleuca</i> Meinsh.]	[1, 2, 3, 5, 7]
<i>Carex appendiculata</i> Kük.	[2, 4, 5, 8–10]
<i>Carex argunensis</i> Turcz. [≡ <i>Carex rupestris</i> subsp. <i>argunensis</i> (Turcz.) Vorosch.]	[2, 4, 5, 7, 9]
<i>Carex arnellii</i> Christ	[2, 3, 4, 5, 9]
<i>Carex aterrima</i> Hoppe	[1, 2, 3, 6, 7]
<i>Carex atherodes</i> Spreng.	[1–5, 7, 8, 9, 11]
<i>Carex atrofusca</i> Schkuhr	[1, 3, 7]
<i>Carex bigelowii</i> subsp. <i>ensifolia</i> (Gorodkov) Holub	[1, 2, 3, 6, 7]
<i>Carex bigelowii</i> subsp. <i>rigidioides</i> (Gorodkov) T.V.Egorova	[2, 3]
<i>Carex bistaminata</i> (W.Z.Di & M.J.Zhong) S.R.Zhang [≡ <i>Kobresia bistaminata</i> W.Z.Di & M.J.Zhong = <i>Kobresia myosuroides</i> (Vill.) Fiori]	[1–3, 5–7, 10, 13, 14]
<i>Carex bohémica</i> Schreb.	[4]
<i>Carex borealipolaris</i> S.R.Zhang [= <i>Kobresia sibirica</i> (Turcz.) Boeck. = <i>Kobresia smirnovii</i> Ivanova]	[1, 2, 3, 6, 7, 14]
<i>Carex brunnescens</i> (Pers.) Poir. [≡ <i>Carex curta</i> var. <i>brunnescens</i> Pers.]	[2, 9]
<i>Carex canescens</i> L.	[2, 4, 7]
<i>Carex capillifolia</i> (Decne.) S.R.Zhang [= <i>Kobresia capilliformis</i> Ivanova]	[3, 7]
<i>Carex capitata</i> L.	[1, 2, 3, 7]
<i>Carex capricornis</i> Meinsh.	[10]
<i>Carex caryophyllea</i> Latourr.	[1–4, 6, 7, 8, 13]
<i>Carex cespitosa</i> L.	[1–10, 15]
<i>Carex chordorrhiza</i> L.f.	[2]
<i>Carex coriophora</i> Fisch. & C.A.Mey.	[1–5, 8, 9]

	<i>Carex curaica</i> Kunth	[1–3, 6, 7, 10, 11, 14]
	<i>Carex dahurica</i> Kük.	[1, 2]
	<i>Carex delicata</i> C.B.Clarke	[1–10, 13]
	<i>Carex diandra</i> Schrank	[2, 5, 9, 10]
	<i>Carex diluta</i> M.Bieb.	[10]
	<i>Carex distans</i> subsp. <i>aspratilis</i> (V.I.Krecz.) T.V.Egorova	[4, 10]
	<i>Carex duriuscula</i> C.A.Mey.	[1–14, 16]
	<i>Carex eleusinoides</i> Turcz.	[2, 3]
	<i>Carex enervis</i> C.A.Mey.	[1–13, 15]
	<i>Carex eremopyroides</i> V.I.Krecz.	[9, 11]
	<i>Carex ericetorum</i> Pollich	[4]
	<i>Carex globularis</i> L.	[1, 2, 7]
	<i>Carex gotoi</i> Ohwi [= <i>Carex songorica</i> subsp. <i>gotoi</i> (Ohwi) Popov]	[4, 5, 9]
	<i>Carex hancockiana</i> Maxim.	[2, 3, 5]
	<i>Carex heterolepis</i> Bunge	[5]
SE	<i>Carex iljinii</i> V.I.Krecz.	[1, 2, 3]
	<i>Carex karoï</i> Freyn [= <i>Carex selengensis</i> N.A.Ivanova]	[2, 3, 4, 5, 9, 10]
	<i>Carex korshinskii</i> Kom.	[1–6, 8–10, 12, 13]
	<i>Carex lachenalii</i> Schkuhr	[1, 7, 14]
	<i>Carex lanceolata</i> Boott	[2]
	<i>Carex lasiocarpa</i> Ehrh.	[2]
	<i>Carex laxa</i> Wahlenb.	[1, 2]
	<i>Carex ledebouriana</i> C.A.Mey. [= <i>Carex capillaris</i> subsp. <i>ledebouriana</i> (C.A.Mey.) Vorosch.]	[1, 2, 3, 6, 7]
	<i>Carex leporina</i> L.	[2, 3, 7]
	<i>Carex limosa</i> L.	[2]
	<i>Carex lithophila</i> Turcz. [= <i>Carex disticha</i> subsp. <i>lithophila</i> (Turcz.) D.Hämet-Ahti]	[2–5, 7, 9, 10]
	<i>Carex loliacea</i> L.	[2, 5]
	<i>Carex macrogyna</i> Turcz.	[1, 3, 6, 7, 13]
	<i>Carex macrophylla</i> (Y.C.Yang) S.R.Zhang [= <i>Kobresia filifolia</i> (Turcz.) C.B.Clarke ≡ <i>Kobresia filifolia</i> (Turcz.) C.B.Clarke var. <i>macrophylla</i> Y.C.Yang]	[1–4, 6–9, 13]
	<i>Carex magellanica</i> Lam. subsp. <i>irrigua</i> (Wahlenb.) Hiitonen [≡ <i>Carex limosa</i> L. var. <i>irrigua</i> Wahlenb.]	[2, 3]
	<i>Carex media</i> R.Br.	[1–4, 6, 7, 10]
	<i>Carex melanantha</i> C.A.Mey.	[1–3, 6, 7, 9, 13]
	<i>Carex melanocephala</i> Turcz.	[1, 3, 7]
	<i>Carex meyeriana</i> Kunth	[1, 2, 3, 5]
	<i>Carex microglochin</i> Wahlenb.	[1–4, 6–8, 11, 14]
	<i>Carex nigra</i> subsp. <i>junceae</i> (Fr.) Soó [= <i>Carex juncella</i> T.M.Fries]	[1, 3]
	<i>Carex norvegica</i> Retz.	[1, 2, 3, 4, 6, 7]
	<i>Carex obtusata</i> Lilj.	[1–3, 6, 7, 9, 13]

- Carex orbicularis* Boott [1–8, 12–15]
- Carex pamirica* (O.Fedtsch.) B.Fedtsch. subsp. *dichroa* (Freyn) T.V.Egorova
[≡ *Carex pulla* Gooden. subsp. *dichroa* Freyn] [1–4, 6, 7, 10]
- Carex parallela* Laest. subsp. *redowskiana* (C.A.Mey.) T.V.Egorova
[≡ *Carex redowskiana* C.A.Mey.] [1, 7]
- Carex parva* Nees [3]
- Carex pediformis* var. *macroura* (Meinsh.) Kük.
[≡ *Carex macroura* Meinsh.] [1, 2, 3, 5, 7]
- Carex pediformis* subsp. *pediformis* [1–9, 13, 14]
- Carex praecox* Schreb. [2, 4]
- Carex pseudofoetida* Kük. [7, 13]
- Carex pycnostachya* Kar. & Kir. [≡ *Carex curaica* subsp. *pycnostachya*
(Kar. & Kir.) T.V.Egorova] [3, 11, 14]
- Carex raddei* Kük. [2]
- Carex relaxa* V.I.Krecz. [3, 4, 8, 9]
- Carex reptabunda* (Trautv.) V.I.Krecz. [1, 3–5, 8, 9, 11, 12, 16]
- Carex rhynchophysa* Fisch. [2–5, 9, 10]
- Carex rostrata* Stokes [1–5, 8, 9, 10]
- Carex rupestris* All. [1, 2, 3, 6, 7, 13]
- Carex sabulosa* Turcz. [1–4, 7, 8, 10]
- Carex sabynensis* Less. [2, 3]
- SE *Carex sajanensis* V.I.Krecz. [1–4, 6–9, 11, 12]
- Carex sargentiana* (Hemsl.) S.R.Zhang [≡ *Kobresia sargentiana* Hemsl.
= *Kobresia robusta* Maxim.] [3]
- Carex saxatilis* L. [= *Carex saxatilis* subsp. *laxa* (Trautv.) Kalela] [1, 3]
- Carex schmidtii* Meinsh. [2, 3, 4, 5, 8, 9]
- Carex sedakowii* C.A.Mey. [1, 2, 4]
- Carex simpliciuscula* Wahlenb. [= *Kobresia simpliciuscula* subsp.
subholarctica T.V.Egorova] [1, 2, 3, 7, 12, 14]
- Carex songorica* Kar. & Kir. [4, 5, 9, 10, 14]
- Carex sordida* Van Heurck & Müll.Arg. [1, 2, 3, 6, 7, 8, 13, 14]
- Carex stenophylla* subsp. *stenophylloides* (V.I.Krecz.) T.V.Egorova [3, 7–16]
- Carex supermascula* V.I.Krecz. [1, 2, 4, 5, 9, 13]
- Carex tenuiflora* Wahlenb. [1, 2, 3]
- Carex tomentosa* L. [2, 4, 8]
- Carex tristis* subsp. *stenocarpa* (Turcz.) T.V.Egorova [1–3, 6–8, 13, 14]
- Carex vaginata* var. *petersii* (C.A.Mey.) Akiyama [= *Carex falcata* Turcz.] [2, 3]
- Carex vaginata* Tausch var. *vaginata* [1, 2, 3]
- Carex vesicata* Meinsh. [1–6, 8, 9, 14]
- Carex williamsii* Britton [2]
- Carex yamatsutana* Ohwi [= *Carex diplasiocarpa* V.I.Krecz.] [2, 5, 9]
- Cyperus fuscus* L. [8, 9, 10]
- Cyperus hamulosus* M.Bieb. [≡ *Mariscus hamulosus* (M.Bieb.) S.S.Hooper] [10]

- Cyperus michelianus* (L.) Delile [= *Scirpus michelianus* L.] [4]
Cyperus pannonicus Jacq. [= *Juncellus pannonicus* (Jacq.) C.B.Clarke] [10, 11, 16]
Eleocharis acicularis (L.) Roem. & Schult. [2–4, 6–9, 11, 14]
Eleocharis mamillata (H.Lindb.) H.Lindb. [10]
Eleocharis mitracarpa Steud. [7, 14, 15]
Eleocharis palustris (L.) Roem. & Schult. [= *Scirpus palustris* L.] [1–16]
Eleocharis quinqueflora (Hartmann) O.Schwarz
 [= *Scirpus quinqueflorus* Hartmann] [2–4, 7, 8, 10, 11, 15]
Eleocharis uniglumis Schult. [= *Eleocharis klingei* (Meinsh.) B.Fedtsch.] [1, 3–5, 8–10, 12–15]
Eleocharis yokoscensis (Franch. & Sav.) Tang & F.T.Wang
 [= *Eleocharis acicularis* subsp. *yokoscensis* (Franch. & Sav.) T.V.Egorova] [2–5, 8, 9, 14]
Eriophorum altaicum Meinsh. [1, 2, 3, 6, 7]
Eriophorum angustifolium Honck. [1–7, 9, 10, 11]
Eriophorum angustifolium subsp. *komarovii* (V.N.Vassil.) M.S.Novos. [1–10]
Eriophorum brachyantherum Trautv. & C.A.Mey. [1–4, 6, 7, 10]
Eriophorum callitrix C.A.Mey. [1]
Eriophorum chamissonis C.A.Mey.
 [= *Eriophorum mandshuricum* Meinsh.] [1, 3, 4, 5, 7]
Eriophorum gracile W.D.J.Koch [= *Eriophorum gracile* subsp. *asiaticum* (V.N.Vassil.) M.S.Novos.] [3, 4]
Eriophorum humile Turcz. [1, 2, 3, 6, 7]
Eriophorum vaginatum L. [3]
Schoenoplectiella supina (L.) Lye [= *Schoenoplectus supinus* (L.) Pall.] [10]
Schoenoplectus lacustris subsp. *hippolytii* (V.I.Krecz.) Kukkonen
 [= *Scirpus hippolyti* V.I.Krecz.] [1–10, 12–15]
Schoenoplectus tabernaemontani (C.C.Gmel.) Pall. [2, 3, 14]
Schoenoplectus triqueter (L.) Palla [= *Scirpus triqueter* L.] [9]
Scirpus orientalis Ohwi [= *Scirpus sylvaticus* subsp. *orientalis* (Ohwi) Vorosch.] [2, 3, 4, 5, 9]
Scirpus radicans Schkuhr [2, 3, 4, 5, 9]
Trichophorum pumilum (Vahl) Schinz & Thell. [1, 3, 4, 8, 9, 10, 14]
- 48. Droseraceae** Salisb. (2 genera and 3 species)
Aldrovanda vesiculosa L. [10]
Drosera anglica Huds. [2]
Drosera rotundifolia L. [2]
- 49. Elaeagnaceae** Juss. (2 genera and 3 taxa)
Elaeagnus angustifolia L. [15, 16]

- Hippophae rhamnoides* St.-Lag. subsp. *mongolica* Rousi
 [= *Hippophae mongolica* (Rousi) Tzvelev] [3, 4, 6, 7, 10, 11, 13]
Hippophae rhamnoides St.-Lag. subsp. *turkestanica* Rousi
 [= *Hippophae turkestanica* (Rousi) Tzvelev] [14]

50. Ericaceae Durande (12 genera and 27 taxa)

- Arctostaphylos uva-ursi* (L.) Spreng. [2]
Arctous alpina (L.) Nied. [= *Arbutus alpina* L.] [1, 3, 6, 10]
Cassiope ericoides D.Don [4]
Chamaedaphne calyculata (L.) Moench [1–3, 6, 7, 13]
Empetrum nigrum L. subsp. *nigrum* [1, 2, 3, 4]
Empetrum nigrum subsp. *sibiricum* (V.N.Vassil.) Kuvaev
 [= *Empetrum sibiricum* V.N.Vassil.] [1, 2, 3, 4, 6, 7]
Moneses uniflora A.Gray [1, 2, 4, 7]
Monotropa hypopitys L. [1, 3, 4]
Orthilia obtusata (Turcz.) H.Hara [= *Pyrola secunda* var.
obtusata Turcz.] [1, 2, 3, 4, 6, 7]
Orthilia secunda (L.) House [= *Pyrola secunda* L.] [1, 2, 3, 4, 7]
Phyllodoce caerulea (L.) Bab. [= *Andromeda caerulea* L.] [1]
Pyrola asarifolia subsp. *incarnata* (DC.) A.E.Murray
 [= *Pyrola rotundifolia* var. *incarnata* (DC.) A.P.Khokhr.] [1–7, 9]
Pyrola chlorantha Sw. [1, 4]
Pyrola daurica Kom. [1, 4, 5, 7, 9]
Pyrola media Sw. [3, 4]
Pyrola minor L. [2]
Pyrola rotundifolia L. [1, 2, 3, 4, 7]
Rhododendron adamsii Rehder [1, 3]
Rhododendron aureum Georgi [1, 2]
Rhododendron dauricum L. [1, 2, 3, 4, 5]
Rhododendron lapponicum (L.) Wahlenb. [1, 2, 3]
Rhododendron ledebourii Pojark. [= *Rhododendron dauricum* subsp.
ledebourii (Pojark.) Alexandrova & P.A.Schmidt] [1, 3]
Rhododendron tomentosum Harmaja [= *Ledum palustre* L.,
 = *Ledum palustre* var. *decumbens* Aiton] [1, 2, 3, 4]
Vaccinium microcarpum (Turcz.) Schmalh.
 [= *Oxycoccus microcarpus* Turcz.] [1, 2]
Vaccinium myrtillus L. [= *Vitis-idaea myrtillus* (L.) Moench] [1, 2]
Vaccinium uliginosum L. [1, 2, 3, 4, 6]
Vaccinium vitis-idaea L. [= *Vitis-idaea vitis-idaea* (L.) Britton] [1, 2, 3, 4, 5, 6]

51. Euphorbiaceae Juss. (1 genus and 15 species)

- Euphorbia alpina* C.A.Mey. [7]
Euphorbia caesia Kar. & Kir. [7]

	<i>Euphorbia esula</i> L. [= <i>Euphorbia discolor</i> Ledeb.]	[1–5, 8, 9, 12]
	<i>Euphorbia fischeriana</i> Steud.	[4, 5, 9]
	<i>Euphorbia humifusa</i> Willd.	[3, 4, 7–16]
	<i>Euphorbia kozlovii</i> Prokh.	[8, 10, 12, 13, 16]
	<i>Euphorbia macrorhiza</i> Ledeb.	[6, 7]
	<i>Euphorbia mongolica</i> Prokh.	[3, 6, 7, 10–13]
	<i>Euphorbia pachyrhiza</i> Kar. & Kir.	[7]
	<i>Euphorbia pilosa</i> L.	[7]
	<i>Euphorbia potaninii</i> Prokh.	[3, 6, 7, 10, 13]
	<i>Euphorbia soongarica</i> Boiss. [≡ <i>Galarhoeus soongaricus</i> (Boiss.) Prokh.]	[7]
	<i>Euphorbia subcordata</i> C.A.Mey.	[3, 6, 7, 10, 14]
	<i>Euphorbia tshuiensis</i> (Prokh.) Serg.	[6, 7, 10]
	<i>Euphorbia virgata</i> Waldst. & Kit. [≡ <i>Galarhoeus virgatus</i> (Waldst. & Kit.) Prokh.]	[4, 8]
52. Fabaceae Lindl. (24 genera and 328 taxa)		
	<i>Alhagi maurorum</i> Medik.	[14, 15, 16]
	<i>Alhagi pseudalhagi</i> subsp. <i>kirghisorum</i> (Schrenk) Yakovl. [= <i>Alhagi sparsifolia</i> Shap.]	[14, 15]
SE	<i>Ammopiptanthus mongolicus</i> (Maxim.) S.H.Cheng	[14, 15, 16]
SE	<i>Astragalus admirabilis</i> Pjak & E.Pjak	[7]
	<i>Astragalus adsurgens</i> Pall.	[1–13]
	<i>Astragalus agrestis</i> Douglas ex G.Don	[7, 10]
	<i>Astragalus aksaicus</i> Schischk.	[7]
SE	<i>Astragalus alaschanus</i> Bunge	[13]
	<i>Astragalus alberti</i> Bunge	[10, 11]
	<i>Astragalus albicans</i> Bong.	[14]
	<i>Astragalus alpinus</i> L.	[1, 2, 7, 9, 13]
	<i>Astragalus altaicola</i> Podlech	[6, 7, 14]
	<i>Astragalus ammodytes</i> Pall.	[10, 14]
	<i>Astragalus ankylotus</i> Fisch. & C.A.Mey.	[7, 14]
	<i>Astragalus arcuatus</i> Kar. & Kir.	[14]
	<i>Astragalus argutensis</i> Bunge	[4, 6, 7, 8]
	<i>Astragalus arkalycensis</i> Bunge	[6, 7, 14]
	<i>Astragalus austro-sibiricus</i> Schischk.	[1, 3, 6, 7, 8, 13]
SE	<i>Astragalus baitagensis</i> Sanchir	[14]
	<i>Astragalus beketowii</i> (Krassn.) B.Fedtsch.	[6]
	<i>Astragalus borodinii</i> Krasnob.	[7, 14]
	<i>Astragalus brachybotrys</i> Bunge	[6, 7, 10–14]
	<i>Astragalus brevifolius</i> Ledeb.	[1–4, 6–8, 10–13]
SE	<i>Astragalus burtschumensis</i> Sumnev.	[6, 7, 10]
	<i>Astragalus candidissimus</i> Ledeb.	[7, 14]
E	<i>Astragalus chamonobrychis</i> Podlech	[7]

E	<i>Astragalus changaicus</i> Sanchir	[3, 7]
	<i>Astragalus chinensis</i> L.f.	[5, 9]
SE	<i>Astragalus chorinensis</i> Bunge [= <i>Astragalus pseudochorinensis</i> N.Ulziykh.]	[2, 3, 4]
E	<i>Astragalus chubsugulicus</i> Gontsch. ex N.Ulziykh.	[1]
	<i>Astragalus compressus</i> Ledeb.	[7]
	<i>Astragalus confertus</i> Benth.	[3, 7]
	<i>Astragalus consanguineus</i> Bong. & C.A.Mey.	[10]
	<i>Astragalus contortuplicatus</i> L.	[14]
	<i>Astragalus dahuricus</i> Patrin	[3–5, 8–10, 12]
	<i>Astragalus danicus</i> Retz.	[1, 4]
	<i>Astragalus depauperatus</i> Ledeb.	[3, 6, 7]
	<i>Astragalus dilutus</i> Bunge	[3, 6, 7, 10, 12–14]
	<i>Astragalus dschimensis</i> Gontsch.	[7, 14]
	<i>Astragalus ellipsoideus</i> Ledeb.	[3, 6, 7, 10, 12, 14–16]
	<i>Astragalus filiformis</i> (DC.) Poir. [= <i>Oxytropis filiformis</i> DC.]	[1–5, 7–11, 13]
	<i>Astragalus follicularis</i> Pall.	[3]
	<i>Astragalus frigidus</i> A.Gray	[1–3, 6, 7, 13]
	<i>Astragalus fruticosus</i> Pall.	[2, 3, 4, 9, 13]
	<i>Astragalus galactites</i> Pall.	[1–5, 8, 9]
	<i>Astragalus glomeratus</i> Ledeb.	[3, 7, 13]
E	<i>Astragalus gobicus</i> Hanelt & Davaz.	[14, 15]
E	<i>Astragalus granitovii</i> Sanchir	[7, 14]
SE	<i>Astragalus gregorii</i> B. Fedtsch. & Basil.	[7]
SE	<i>Astragalus grubovii</i> Sanchir [= <i>Astragalus alaschanensis</i> H.C.Fu]	[7, 10–16]
SE	<i>Astragalus grum-grshimailoi</i> Palib.	[7]
E	<i>Astragalus gubanovii</i> N.Ulziykh.	[7, 10]
SE	<i>Astragalus habaheensis</i> Y.X.Liou	[14]
SE	<i>Astragalus hamiensis</i> S.B.Ho [= <i>Astragalus banzragczii</i> N.Ulziykh.]	[14]
SE	<i>Astragalus hsinbaticus</i> P.Y.Fu & Y.A.Chen	
	[= <i>Astragalus quasitesticulatus</i> Barratte & Z.Y.Chu]	[9]
	<i>Astragalus hypogaeus</i> Ledeb.	[3, 6, 7, 10]
	<i>Astragalus inopinatus</i> Boriss.	[1–5, 7–9, 13]
SE	<i>Astragalus junatovii</i> Sanchir	[12, 13, 15, 16]
	<i>Astragalus kasachstanicus</i> Golosk.	[7]
	<i>Astragalus kaufmannii</i> Krylov	[1, 3]
E	<i>Astragalus kenteicus</i> N.Ulziykh.	[2]
	<i>Astragalus klementzii</i> N.Ulziykh.	[3]
E	<i>Astragalus koslovii</i> B.Fedtsch. & N.Basil.	[13]
	<i>Astragalus kurtschumensis</i> Bunge	[7, 10]
	<i>Astragalus laguroides</i> Pall. [= <i>Astragalus gobi-altaicus</i> N.Ulziykh.]	[2–4, 6–8, 10–13]
	<i>Astragalus lasiopetalus</i> Bunge	[7, 14]

	<i>Astragalus laxmannii</i> Jacq.	[7, 10, 14]
	<i>Astragalus lepsensis</i> Bunge	[7]
	<i>Astragalus leptostachys</i> Pall. [= <i>Astragalus macropterus</i> DC. = <i>Astragalus multicaulis</i> Ledeb.]	[1, 3, 6, 7, 13]
SE	<i>Astragalus lupulinus</i> Pall.	[3, 4, 7, 11–14, 16]
SE	<i>Astragalus luxurians</i> Bunge	[7]
	<i>Astragalus macrolobus</i> M.Bieb.[= <i>Astragalus macrocerus</i> C.A.Mey.]	[7, 10, 11]
	<i>Astragalus macrotrichus</i> E.Peter	[7, 10, 12, 14–16]
	<i>Astragalus majevskianus</i> Krylov	[7]
	<i>Astragalus megalanthus</i> DC.	[8, 12]
	<i>Astragalus melilotoides</i> Pall.	[2, 3, 4, 8–13, 16]
	<i>Astragalus miniatus</i> Bunge	[3, 4, 8, 9, 11–13]
	<i>Astragalus mongholicus</i> Bunge [= <i>Astragalus membranaceus</i> Fisch. = <i>Astragalus propinquus</i> Schischk.]	[1–11, 13]
	<i>Astragalus monophyllus</i> Bunge	[6–16]
	<i>Astragalus norvegicus</i> Weber	[1, 2]
SE	<i>Astragalus ochrias</i> Bunge	[12, 14, 15, 16]
	<i>Astragalus onobrychis</i> L.	[10]
	<i>Astragalus ortholobus</i> Bunge	[7]
	<i>Astragalus oxyglottis</i> Steven	[7, 14]
	<i>Astragalus pallasii</i> Spreng. [= <i>Astragalus lasiophyllus</i> Ledeb.]	[14]
SE	<i>Astragalus pavlovii</i> B.Fedtsch. & Basil.	[13–16]
	<i>Astragalus peterae</i> Tsai & Yu	[6, 10]
	<i>Astragalus physocarpus</i> Ledeb.	[7]
SE	<i>Astragalus politovii</i> Krylov	[7]
SE	<i>Astragalus polozhiae</i> Timokhina	[6, 7]
SE	<i>Astragalus pseudoborodinii</i> S.B.Ho [= <i>Astragalus baischinticus</i> N.Ulziykh.]	[14]
	<i>Astragalus pseudobrachytropis</i> Gontsch.	[6]
E	<i>Astragalus pseudotesticulatus</i> Sanchir	[7]
E	<i>Astragalus pseudovulpinus</i> Sanchir	[14]
	<i>Astragalus puberulus</i> Ledeb. [≡ <i>Craccina puberula</i> (Ledeb.) Steven]	[7, 10, 11, 13, 14]
	<i>Astragalus roseus</i> Ledeb.	[7, 14]
	<i>Astragalus rudolffii</i> N.Ulziykh.	[7, 14]
	<i>Astragalus rytidocarpus</i> Ledeb.	[2, 3, 7]
	<i>Astragalus sabuletorum</i> Ledeb.	[7, 14, 15]
E	<i>Astragalus saichanensis</i> Sanchir	[7, 13]
E	<i>Astragalus sanczirii</i> N.Ulziykh.	[7, 14]
SE	<i>Astragalus saralensis</i> Gontsch.	[1]
	<i>Astragalus scaberrimus</i> Bunge	[2–4, 8, 9, 12]
	<i>Astragalus scabrisetus</i> Bong.	[15]
	<i>Astragalus schanginianus</i> Pall.	[7]
	<i>Astragalus schrenkianus</i> Fisch. & C.A.Mey.	[7]

- Astragalus scleropodius* Ledeb. [7]
Astragalus secundus DC.
 [= *Astragalus frigidus* subsp. *secundus* (DC.) Vorosch.] [1, 3, 13]
Astragalus sphaerocystis Bunge [7]
Astragalus stenoceras C.A.Mey. [10]
Astragalus suffruticosus DC. [1–4, 7, 8, 13]
Astragalus sulcatus L. [7, 10, 11, 13, 14]
 E *Astragalus tamiricus* N.Ulziykh. [3]
Astragalus tenuis Turcz. [= *Astragalus melilotoides* Pall. var. *tenuis* (Turcz.) Ledeb.] [1, 2, 3, 5, 8, 9]
Astragalus tephrolobus Bunge [7]
Astragalus tibetanus Benth. [7, 10, 11, 14, 15]
Astragalus tschujensis Bunge [7]
Astragalus tulinovii B.Fedtsch. [7]
 SE *Astragalus tuvinicus* Timokhina [7, 14]
Astragalus uliginosus L. [1–5, 8]
 E *Astragalus ulziykhutagii* Sytin [= *Astragalus alexandrii* N.Ulziykh.] [7]
Astragalus urunguensis N.Ulziykh. [14]
 SE *Astragalus vallestis* Kamelin [3, 7, 10–14]
Astragalus variabilis Bunge [7, 11–16]
Astragalus versicolor Pall. [= *Astragalus alexandrii* N.Ulziykh. nom. illegit.] [1, 2, 3, 4, 6]
 E *Astragalus viridiflavus* N.Ulziykh. [1, 2, 3, 4]
Astragalus xanthotrichos Ledeb. [7]
 SE *Astragalus yumenensis* S.B.Ho [14, 15]
 SE *Astragalus zacharensis* Bunge [9]
Astragalus zaissanensis Sumnev. [7]
Caragana arborescens Lam. [1, 3, 10]
Caragana brachypoda Pojark. [12, 13, 16]
Caragana bungei Ledeb. [3, 6, 7, 10, 11, 13–15]
 SE *Caragana davazamcii* Sanchir [= *Caragana korshinskii* var. *davazamcii* (Sanchir) Yakovlev] [9, 11–13, 16]
 E *Caragana gobica* Sanchir [7, 12, 13, 14]
Caragana halodendron (Pall.) Dum.Cours.
 [= *Halimodendron halodendron* (Pall.) Voss.] [7, 10, 14, 15]
Caragana jubata Poir. [1, 2, 3, 7, 13]
 SE *Caragana korshinskii* Kom. [9, 11–13, 16]
Caragana leucophloea Pojark. [3, 4, 6–8, 10–16]
Caragana microphylla Lam. [2, 3, 4, 8, 9]
Caragana pygmaea (L.) DC. [= *Robinia pygmaea* L.] [1–14]
Caragana spinosa (L.) Vahl [4, 6–8, 10, 11, 14, 16]
Caragana stenophylla Pojark. [3–5, 8, 9, 12, 13]
 SE *Caragana tibetica* Kom. [12, 13, 16]

- Chesneya ferganensis* Korsh. [= *Chesniella ferganensis* (Korsh.) Boriss.] [15]
 SE *Chesneya mongolica* Maxim. [10–13, 15, 16]
 SE *Chesniella macrantha* (W.C.Cheng) L.Duan, J.Wen & Zhao Y.Chang
 [= *Spongiocarpella grubovii* (N.Ulziykh.) Yakovlev] [15, 16]
Cicer songaricum Steph. [7]
Corethroedendron fruticosum (Pall.) B.H.Choi & H.Ohashi
 [= *Hedysarum fruticosum* Pall.] [3, 4, 5, 8–13, 16]
Corethroedendron scoparium (Fisch. & C.A.Mey.) Fisch. & Basiner
 [= *Hedysarum scoparium* Fisch. & C.A.Mey.
 = *Hedysarum arbuscula* Maxim.] [15, 16]
Glycyrrhiza aspera Pall. [10, 14]
Glycyrrhiza glabra L. [= *Glycyrrhiza alaschanica* Grankina] [10, 12, 14, 15, 16]
 SE *Glycyrrhiza inflata* Batalin [7, 15, 16]
Glycyrrhiza pallidiflora Maxim. [9]
 SE *Glycyrrhiza squamulosa* Franch. [12, 14]
Glycyrrhiza uralensis Fisch. [= *Glycyrrhiza gobica* Grankina
 = *Glycyrrhiza soongorica* Grankina] [2–5, 8–16]
Gueldenstaedtia monophylla Fisch. [6, 7, 10, 12, 13, 16]
Gueldenstaedtia verna (Georgi) Boriss.
 [= *Gueldenstaedtia stenophylla* Bunge] [1, 2, 4, 5, 9]
Hedysarum alpinum L. [= *Echinolobium alpinum* (L.) Desv.] [1–7, 9]
Hedysarum austrosibiricum B.Fedtsch.
 [= *Hedysarum hedysaroides* subsp. *austrosibiricum* (B.Fedtsch.) Jurtzev] [3, 6, 7]
Hedysarum brachypterum Bunge [2, 9]
 SE *Hedysarum chalchorum* N.Ulziykh. [3, 4, 8]
Hedysarum consanguineum DC. [7]
Hedysarum dahuricum Turcz. [= *Hedysarum gmelinii* var.
dahuricum (Turcz.) R.Sha] [1, 3–10, 13]
Hedysarum ferganense Korsh. [1–4, 6–11, 13, 14, 16]
Hedysarum gmelinii Ledeb. [1–4, 6, 7, 9, 10, 13]
Hedysarum hedysaroides subsp. *arcticum* (B.Fedtsch.) P.W.Ball
 [= *Hedysarum arcticum* B.Fedtsch.] [1, 3, 6, 7]
Hedysarum iliense B.Fedtsch. [7]
Hedysarum inundatum Turcz. [1–3, 6, 7, 10, 13]
Hedysarum kamelinii N.Ulziykh. [7]
Hedysarum krylovii Sumn. [7]
Hedysarum lintschevskyi Bajtenov [7, 13]
Hedysarum neglectum Ledeb. [1, 2, 3, 6, 7]
Hedysarum roseum Sims [2, 3, 4]
Hedysarum sajanicum N.Ulziykh. [1]
 SE *Hedysarum sangilense* Krasnob. & Timokhina [1, 3]
Hedysarum setigerum Turcz. [2–7, 9]
Hedysarum theinum Krasnob. [7]

	<i>Lathyrus humilis</i> (Ser.) Fisch. [= <i>Orobis humilis</i> Ser.]	[1–5, 8, 9]
	<i>Lathyrus ledebourii</i> Trautv.	[7]
	<i>Lathyrus palustris</i> L. subsp. <i>pilosus</i> (Cham.) Hultén	[1–5, 8, 9, 10, 14]
	<i>Lathyrus pisiformis</i> L.	[5, 9]
	<i>Lathyrus pratensis</i> L.	[2, 3, 4, 10]
	<i>Lathyrus quinquenervius</i> (Miq.) Litv.	[3, 4, 5]
	<i>Lespedeza bicolor</i> Turcz.	[5]
	<i>Lespedeza daurica</i> (Laxm.) Schindl. [= <i>Trifolium dauricum</i> Laxm.]	[2–5, 8, 9, 11–13, 16]
	<i>Lespedeza juncea</i> (L.f.) Pers.	[2–5, 8, 9]
	<i>Lespedeza tomentosa</i> Siebold	[5, 9]
	<i>Lotus krylovii</i> Schischk. & Serg.	[7, 9, 10, 12, 14–16]
	<i>Medicago falcata</i> L.	[2–12, 14]
	<i>Medicago lupulina</i> L.	[2–5, 7–11, 13, 14]
	<i>Medicago platycarpa</i> (L.) Trautv.	[1, 2, 3, 4, 7, 9]
	<i>Medicago ruthenica</i> Trautv.	[1–5, 8–11, 13, 14]
	<i>Melilotus dentatus</i> (Waldst. & Kit.) Pers.	[2–5, 7–12, 14]
	<i>Melilotus officinalis</i> (L.) Lam.	[2, 3, 4]
	<i>Melilotus suaveolens</i> Ledeb. [= <i>Trigonella suaveolens</i> (Ledeb.) Coulot & Rabaut] [1, 3–14]	
	<i>Melilotus wolgicus</i> Poir.	[9, 12]
	<i>Onobrychis arenaria</i> (Kit.) DC. subsp. <i>arenaria</i>	[2, 3, 4, 8]
	<i>Onobrychis arenaria</i> subsp. <i>sibirica</i> (Turcz.) P.W.Ball [= <i>Onobrychis sibirica</i> (Sirj.) Turcz.]	[2, 3, 4, 13]
SE	<i>Oxytropis acanthacea</i> Jurtzev	[6, 7]
	<i>Oxytropis aciphylla</i> Ledeb.	[3, 6, 7, 10–16]
SE	<i>Oxytropis alpestris</i> Schischk.	[7]
	<i>Oxytropis alpicola</i> Turcz.	[2]
	<i>Oxytropis alpina</i> Bunge	[1, 2, 3, 6, 7, 13]
	<i>Oxytropis altaica</i> (Pall.) Pers.	[6, 7]
	<i>Oxytropis ambigua</i> (Pall.) DC.	[1, 2, 3, 4, 7, 13]
	<i>Oxytropis ampullata</i> (Pall.) Pers.	[2, 3, 7–9, 12, 13]
SE	<i>Oxytropis baicalia</i> (Pall.) Pers.	[1, 3, 4]
SE	<i>Oxytropis bicolor</i> Bunge	[9]
	<i>Oxytropis brachycarpa</i> Vassilcz.	[7]
E	<i>Oxytropis bungei</i> Kom.	[3, 6, 7, 8, 10–14]
	<i>Oxytropis caerulea</i> DC.	[1, 2, 4, 5, 9]
	<i>Oxytropis caespitosa</i> Pers.	[1, 2, 3, 4, 5, 8]
	<i>Oxytropis campanulata</i> Vassilcz.	[1, 3]
	<i>Oxytropis chionophylla</i> Schrenk	[3, 6, 7, 13]
	<i>Oxytropis deflexa</i> (Pall.) DC.	[1–4, 6, 7, 10, 13]
	<i>Oxytropis diantha</i> Bunge [= <i>Oxytropis changaica</i> B.Fedtsch. & Basil.]	[1, 3]
SE	<i>Oxytropis dubia</i> Turcz.	[2]

SE	<i>Oxytropis eriocarpa</i> Bunge	[6, 7]
	<i>Oxytropis falcata</i> Bunge	[6, 7]
E	<i>Oxytropis fragilifolia</i> N.Ulziykh.	[7, 13]
SE	<i>Oxytropis gebleri</i> Fisch.	[1, 3, 6, 7, 13]
	<i>Oxytropis glabra</i> DC.	[1–4, 6–16]
	<i>Oxytropis glandulosa</i> Turcz.	[1, 3]
	<i>Oxytropis glareosa</i> Vassilcz.	[3, 10]
	<i>Oxytropis gorbunovii</i> Boriss.	[3, 6, 7]
	<i>Oxytropis grandiflora</i> DC.	[2, 4, 5, 8, 9]
	<i>Oxytropis hailarensis</i> Kitag.	[5, 9]
SE	<i>Oxytropis heterophylla</i> Bunge	[6, 7, 10, 13, 14]
	<i>Oxytropis hirta</i> Bunge	[5]
SE	<i>Oxytropis intermedia</i> Bunge	[3, 6, 7, 10]
E	<i>Oxytropis junatovii</i> Sanchir	[13]
SE	<i>Oxytropis jurtzevii</i> Malyshev	[1]
E	<i>Oxytropis klementzii</i> N.Ulziykh.	[2, 3, 4, 8]
SE	<i>Oxytropis komarovii</i> Vassilcz.	[5, 9]
SE	<i>Oxytropis kossinskyi</i> B.Fedtsch. & Basil.	[3, 4, 8, 11, 13]
	<i>Oxytropis krylovii</i> Schipcz.	[7]
SE	<i>Oxytropis kusnetzovii</i> Kryl. & Steinb.	[1, 7]
	<i>Oxytropis ladyginii</i> Krylov	[7]
	<i>Oxytropis lanata</i> DC.	[1, 3, 4, 8, 9]
SE	<i>Oxytropis lanuginosa</i> Kom.	[3, 10]
	<i>Oxytropis lapponica</i> Gaudin	[3, 6, 7]
	<i>Oxytropis lasiopoda</i> Bunge	[3, 4, 8, 9, 13]
SE	<i>Oxytropis latibracteata</i> Jurtzev	[3]
E	<i>Oxytropis lavrenkoi</i> N.Ulziykh.	[12]
	<i>Oxytropis leptophylla</i> DC.	[1, 3–5, 8, 9, 12]
SE	<i>Oxytropis leucotricha</i> Turcz.	[1, 2, 3, 8]
	<i>Oxytropis longirostra</i> DC.	[1, 2, 3]
	<i>Oxytropis macrosema</i> Bunge	[6, 7]
SE	<i>Oxytropis martjanovii</i> Krylov	[3, 6, 7, 10]
E	<i>Oxytropis micrantha</i> Bunge	[3, 6, 7, 10, 11]
	<i>Oxytropis microphylla</i> (Pall.) DC.	[3, 6, 7, 10, 12]
SE	<i>Oxytropis mixotriche</i> Bunge	[2, 3, 4, 8]
SE	<i>Oxytropis mongolica</i> Kom.	[6, 10]
SE	<i>Oxytropis monophylla</i> Grubov	[12, 13]
	<i>Oxytropis muricata</i> (Pall.) DC.	[1, 3, 4, 9, 13]
	<i>Oxytropis myriophylla</i> (Pall.) DC.	[1–5, 8, 9]
SE	<i>Oxytropis nitens</i> Turcz.	[1, 2, 3, 4, 8, 9]
SE	<i>Oxytropis ochrantha</i> Turcz.	[9]
	<i>Oxytropis oligantha</i> Bunge	[3, 6, 7, 10, 13]
	<i>Oxytropis oxyphylla</i> (Pall.) DC.	[1–5, 8, 9, 12]

	<i>Oxytropis pauciflora</i> Bunge	[1, 6, 7, 13]
E	<i>Oxytropis pavlovii</i> B.Fedtsch. & Basil.	[3, 8, 11, 12, 13]
SE	<i>Oxytropis physocarpa</i> Ledeb.	[7]
E	<i>Oxytropis potaninii</i> Bunge	[7, 10]
SE	<i>Oxytropis prostrata</i> (Pall.) DC.	[4, 8, 9]
SE	<i>Oxytropis pseudoglandulosa</i> Gontsch.	[1–4, 8, 9, 12, 13]
	<i>Oxytropis puberula</i> Boriss.	[7, 13, 14]
	<i>Oxytropis pumila</i> Fisch.	[3, 6, 7, 8, 10, 11, 13]
	<i>Oxytropis racemosa</i> Turcz. [= <i>Oxytropis gracillima</i> Bunge]	[3, 4, 6, 8–12]
	<i>Oxytropis recognita</i> Bunge	[6, 7]
SE	<i>Oxytropis reverdattoi</i> Jurtzev	[2, 3, 4]
SE	<i>Oxytropis rhizantha</i> Palib.	[6, 7, 10]
	<i>Oxytropis rhynchophysa</i> Schrenk	[6, 7]
SE	<i>Oxytropis sacciformis</i> H.C.Fu	[12]
SE	<i>Oxytropis sajanensis</i> Jurtzev	[1, 3]
	<i>Oxytropis saposchnikovii</i> Krylov	[7, 10]
SE	<i>Oxytropis selengensis</i> Bunge	[2, 3, 4, 8, 9]
SE	<i>Oxytropis setosa</i> (Pall.) DC.	[3, 6]
	<i>Oxytropis songorica</i> (Pall.) DC.	[7]
	<i>Oxytropis sordida</i> (Willd.) Pers.	[1]
	<i>Oxytropis squammulosa</i> DC.	[2–4, 6–10, 12, 13]
SE	<i>Oxytropis stenophylla</i> Bunge	[3, 13]
	<i>Oxytropis strobilacea</i> Bunge	[1–4, 6, 7, 13]
SE	<i>Oxytropis stukovii</i> Palib.	[3, 9]
	<i>Oxytropis sulphurea</i> Ledeb.	[7]
E	<i>Oxytropis sutaica</i> N.Ulziykh.	[3, 7]
E	<i>Oxytropis tenuis</i> Palib.	[6, 7]
	<i>Oxytropis teres</i> DC.	[7]
	<i>Oxytropis tragacanthoides</i> Fisch.	[1, 3, 6–8, 10, 11, 13–15]
	<i>Oxytropis trichophysa</i> Bunge	[3, 6, 7, 10, 11, 13, 14]
SE	<i>Oxytropis tschujae</i> Bunge	[1, 7]
SE	<i>Oxytropis turczaninovii</i> Jurtzev	[1, 3, 4]
E	<i>Oxytropis ulzijchutagii</i> Sanchir	[7]
SE	<i>Oxytropis varlakovii</i> Serg.	[4, 9]
E	<i>Oxytropis viridiflava</i> Kom.	[1–4, 7–9, 11, 13]
	<i>Sophora alopecuroides</i> L.	[12–16]
	<i>Sophora flavescens</i> Aiton	[5, 9]
	<i>Sphaerophysa salsula</i> (Pall.) DC.	[5, 7, 9–16]
	<i>Thermopsis alpina</i> Ledeb.	[1, 2]
SE	<i>Thermopsis dahurica</i> Czefr.	[2, 4, 5, 9, 12]
	<i>Thermopsis lanceolata</i> R.Br. [= <i>Thermopsis lanceolata</i> var. <i>glabra</i> (Czefr.) Yakovlev]	[1–5, 8, 9, 11, 13]
E	<i>Thermopsis longicarpa</i> N.Ulziykh.	[6, 10]

- Thermopsis mongolica* Czefr. [= *Thermopsis lanceolata* var. *mongolica* (Czefr.) Q.R.Wang & X.Y.Zhu] [6, 7, 10–14, 16]
- SE *Thermopsis przewalskii* Czefr. [9, 13]
- Trifolium eximium* Steph. [1–4, 6–11, 13]
- Trifolium lupinaster* L. [1–9]
- Trifolium pratense* L. [1, 4]
- Trifolium repens* L. [2, 7]
- Trigonella arcuata* C.A.Mey. [7, 14]
- Trigonella cancellata* Desf. [7, 14]
- Vicia amoena* Fisch. [= *Vicia amoena* subsp. *sericea* (Kitag.) Kamelin & Gubanov] [1–5, 7, 8, 9]
- Vicia amurensis* Oett. [4, 5, 9]
- Vicia costata* Ledeb. [2–4, 6–14, 16]
- Vicia cracca* L. [1–10, 14]
- Vicia geminiflora* Trautv. [3, 4, 5]
- Vicia japonica* A.Gray [2, 5]
- Vicia macrantha* Jurtzev [= *Vicia macrantha* subsp. *olchonensis* Peschkova] [1, 2, 3]
- Vicia megalotropis* Ledeb.. [1–5, 8, 9]
- Vicia multicaulis* Ledeb. [= *Vicia nervata* Sipliv.] [1–6, 8, 13]
- SE *Vicia olchonensis* (Peschkova) O.D.Nikif. [= *Vicia macrantha* subsp. *olchonensis* Peschkova] [1, 4]
- Vicia pseudorobus* Fisch. & C.A.Mey. [5, 9]
- Vicia ramuliflora* (Maxim.) Ohwi [= *Vicia baicalensis* (Turcz.) B.Fedtsch.] [2, 3, 4, 5]
- Vicia semenovii* B.Fedtsch. [3, 13]
- Vicia tenuifolia* Roth [3, 6, 7]
- SE *Vicia tsydenii* Malyshev [4]
- Vicia unijuga* A.Braun [1–8]
- Vicia venosa* Maxim. [1, 2, 3, 4, 5, 8]

53. Frankeniaceae Desv. (1 genus and 2 species)

- Frankenia pulverulenta* L. [10]
- SE *Frankenia tuvinica* Lomon. [10]

54. Gentianaceae Juss. (8 genera and 32 taxa)

- Centaurium pulchellum* subsp. *meyeri* (Bunge) Tzvelev [7, 10, 13]
- Centaurium pulchellum* (Sw.) Hayek subsp. *pulchellum* [10, 11, 15]
- Comastoma falcatum* (Turcz.) Toyokuni [1, 6, 7, 13]
- Comastoma malyshevii* (Zuev) Zuev [= *Gentianella malyshevii* Zuev] [1, 3, 7]
- Comastoma pulmonarium* (Turcz.) Toyokuni [1, 2, 3, 6]
- Comastoma tenellum* (Rottb.) Toyok. [= *Gentiana tenella* Rottb.][1–3, 6, 7, 13, 14]
- Gentiana algida* Pall. [1–3, 6, 7, 13]

- Gentiana aquatica* L. subsp. *aquatica* [1, 2, 3, 6, 7, 8]
Gentiana aquatica var. *pseudoaquatica* (Kusn.) S.Agrawal
 [= *Gentiana pseudoaquatica* Kusnezow] [1–4, 6–9, 13]
Gentiana dahurica Fisch. [= *Dasystephana dahurica* (Fisch.) Zuev] [4, 5, 8, 9]
Gentiana decumbens L.f. [= *Dasystephana decumbens* (L.f.) Zuev] [1–11, 13, 14]
Gentiana grandiflora Laxm. [1, 2, 3, 7]
Gentiana leucomelaena Maxim. [= *Ciminalis leucomelaena* (Maxim.) Zuev]
 [1–4, 7, 8, 10, 11, 13, 14]
Gentiana macrophylla Pall. [1–7, 9, 13, 14]
Gentiana prostrata Haenke [1–4, 6–8, 10, 11, 13, 14]
Gentiana karelinii Griseb. [= *Gentiana prostrata* var. *karelinii* (Griseb.) Kusn.]
 [7]
Gentiana riparia Kar. & Kir. [7, 14]
Gentiana squarrosa Ledeb. [= *Ciminalis squarrosa* (Ledeb.) Zuev] [1–11]
Gentiana triflora Pall. [2, 4, 5]
Gentiana uniflora Georgi [1, 3, 6, 7]
Gentianella amarella L. subsp. *acuta* (Michx.) J.M.Gillett
 [= *Gentiana acuta* Michx.] [1–4, 6–9, 13]
Gentianella atrata (Bunge) Holub [5]
Gentianella aurea (L.) Harry Sm. [2, 3, 6, 7, 13]
Gentianella turkestanorum (Gand.) Holub [7, 14]
Gentianopsis barbata (Froel.) Ma [1–11, 13, 14]
Halenia corniculata (L.) Cornaz [= *Swertia corniculata* L.] [1–5, 8, 13]
Lomatogonium carinthiacum (Wulfen) Rchb.
 [= *Swertia carinthiaca* Wulfen] [1–4, 6–8, 11, 13]
Lomatogonium rotatum Fr. [1–8, 10, 13, 14]
Swertia banzragczii Sanchir [6, 7]
Swertia dichotoma L. [= *Anagallidium dichotomum* (L.) Griseb.] [1, 2, 3, 4, 8, 9]
Swertia marginata Schrenk [= *Swertia komarovii* Pissjauk.] [1, 7]
Swertia obtusa Ledeb. [2, 6, 7]

55. Geraniaceae Juss. (2 genera and 19 taxa)

- Erodium cicutarium* (L.) L'Hér. [2, 4, 12]
Erodium stephanianum Willd. [2–5, 7–16]
Erodium tibetanum Edgew. & Hook.f. [4, 6, 7, 8, 10–16]
Geranium affine Ledeb. [6, 7, 14]
Geranium albiflorum Ledeb. [2, 3, 6, 7]
Geranium amurense Tsyren. [3, 4, 9]
Geranium collinum Stephan [7, 10, 14, 15, 16]
Geranium dahuricum DC. [1, 5, 6, 9, 10, 12]
Geranium krylovii Tzvelev [2, 3, 4]
Geranium laetum Ledeb. [3, 7, 14]
Geranium pamiricum Ikonn. [14]

<i>Geranium platyanthum</i> Duthie	[2, 3, 4, 5, 9, 12]
<i>Geranium pratense</i> L.	[1–4, 6–9, 12, 13]
<i>Geranium pseudosibiricum</i> J.Mayer	[1–8, 10, 14]
<i>Geranium saxatile</i> Kar. & Kir.	[7, 14]
<i>Geranium sibiricum</i> L.	[1–5, 7–10, 12–14, 16]
<i>Geranium transbaicalicum</i> Serg.	[1, 7, 9]
<i>Geranium transbaicalicum</i> subsp. <i>turczaninovii</i> (Serg.) Peschkova	[3, 4]
<i>Geranium wlassovianum</i> Fisch.	[1, 2, 3, 4, 5, 9]

56. Grossulariaceae DC. (1 genus and 12 taxa)

<i>Ribes aciculare</i> Sm. [= <i>Grossularia acicularis</i> (Sm.) Spach]	[2–4, 6–8, 10, 13, 14]
<i>Ribes diacanthum</i> Pall. [= <i>Ribes diacanthum</i> f. <i>weichangense</i> J.X.Huang & J.Z.Wang]	[1–5, 8, 9]
<i>Ribes fragrans</i> Pall.	[1, 2]
<i>Ribes graveolens</i> Bunge	[1, 7]
<i>Ribes heterotrichum</i> C.A.Mey.	[6, 7, 10, 14, 15]
<i>Ribes meyeri</i> Maxim.	[7, 14]
<i>Ribes nigrum</i> L.	[1–7, 10, 13]
<i>Ribes petraeum</i> Wulfen [= <i>Ribes altissimum</i> Turcz.]	[1–4, 6, 7, 14]
<i>Ribes procumbens</i> Pall.	[1, 3, 7]
<i>Ribes pulchellum</i> Turcz.	[1–5, 8, 9, 12, 14]
<i>Ribes rubrum</i> L.	[1–7, 9, 13]
<i>Ribes spicatum</i> E.Robson	[1–3, 6, 7, 9, 10]

57. Haloragaceae R.Br. (1 genus and 3 species)

<i>Myriophyllum sibiricum</i> Kom.	[5]
<i>Myriophyllum spicatum</i> L.	[1–11, 14]
<i>Myriophyllum verticillatum</i> L.	[1–10, 14]

58. Hydrocharitaceae Juss. (2 genera and 5 species)

<i>Hydrilla verticillata</i> (L.f.) Royle [= <i>Serpicula verticillata</i> L.f.]	[10]
<i>Najas flexilis</i> (Willd.) Rostk. & W.L.E.Schmidt [= <i>Caulinia flexilis</i> Willd.]	[10]
<i>Najas marina</i> L.	[10, 11]
<i>Najas minor</i> All.	[10]
<i>Najas tenuissima</i> (A.Braun) Magnus [= <i>Caulinia tenuissima</i> (A.Braun) Tzvelev]	[10]

59. Hypericaceae Juss. (1 genus and 4 taxa)

<i>Hypericum ascyron</i> L. subsp. <i>ascyron</i>	[2, 3, 4, 5]
<i>Hypericum ascyron</i> subsp. <i>gebleri</i> (Ledeb.) N.Robson [= <i>Hypericum gebleri</i> Ledeb.]	[2]
<i>Hypericum attenuatum</i> Choisy	[2, 3, 4, 5, 9]
<i>Hypericum perforatum</i> L.	[3, 6]

60. Iridaceae Juss. (1 genus and 21 taxa)

- SE *Iris bungei* Maxim. [≡ *Cryptobasis bungei* (Maxim.) M.B.Crespo] [3, 5, 8, 9, 11–13, 16]
Iris dichotoma Pall. [2, 4, 5, 8, 9]
Iris glaucescens Bunge [6]
Iris halophila Pall. [≡ *Chamaeiris halophila* (Pall.) M.B.Crespo] [6, 14]
Iris humilis Georgi [= *Iris flavissima* Pall.] [1–5, 8, 9, 12, 13]
SE *Iris ivanovae* Doronkin [2, 3]
SE *Iris kamelinii* Alexeeva [1, 7]
Iris lactea Pall. [≡ *Eremiris lactea* (Pall.) Rodion.] [1–13, 15, 16]
Iris loczyi Kanitz [7, 10]
Iris ludwigii Maxim. [≡ *Xyridion ludwigii* (Maxim.) Rodion.] [7]
Iris potaninii Maxim. [1–4, 6–13]
Iris psammocola Y.T.Zhao [10]
SE *Iris pseudothoroldii* Galanin [4]
Iris ruthenica subsp. *brevituba* (Maxim.) Doronkin
[≡ *Iris ruthenica* var. *brevituba* Maxim.] [1, 2]
Iris ruthenica Ker Gawl. subsp. *ruthenica* [1, 2, 3, 4, 5]
E *Iris schmakovii* Alexeeva [1]
Iris sibirica L. [= *Iris sanguinea* Donn] [2, 4, 5, 9]
Iris tenuifolia Pall. [7–15]
Iris tigridia Bunge [1, 2, 3, 4, 8]
Iris uniflora Pall. [≡ *Joniris uniflora* (Pall.) M.B.Crespo] [4, 5]
Iris ventricosa Pall. [≡ *Cryptobasis ventricosa* (Pall.) M.B.Crespo] [5, 9]

61. Juncaceae Juss. (2 genera and 32 taxa)

- Juncus alpinoarticulatus* subsp. *fischerianus* (V.I.Krecz.) Hämet-Ahti [1–10, 14]
SE *Juncus arcticus* subsp. *grubovii* (Novikov) Novikov [≡ *Juncus grubovii* Novikov] [1, 2, 3]
Juncus articulatus L. subsp. *articulatus* [4, 9, 14]
Juncus articulatus subsp. *limosus* (Vorosch.) Vorosch. [≡ *Juncus limosus* Vorosch.] [3, 4, 5, 9]
Juncus biglumis L. [1, 6, 7]
Juncus bufonius L. [1–16]
Juncus castaneus subsp. *leucochlamys* (V.I.Krecz.) Hultén
[≡ *Juncus leucochlamys* V.I.Krecz.] [1–4, 6, 7, 9]
Juncus castaneus subsp. *triceps* (Rostk.) Novikov [1–3, 6, 7, 13]
Juncus compressus Jacq. [1, 3–5, 8–10, 13, 14]
Juncus filiformis L. [7]
Juncus gerardi Loisel [2–4, 6–10, 13–15]
Juncus gracillimus (Buchenau) V.I.Krecz. & Gontsch. [2, 3, 5, 9]
Juncus hybridus Brot. [= *Juncus bufonius* subsp. *ambiguus* (Guss.)
Schinz & Thell.] [3, 4, 6, 7, 9–11, 13–15]

- Juncus orchonicus* Novikov [2–5, 8, 9, 10]
Juncus persicus subsp. *libanoticus* (J.Thiébaud) Novikov & Snogerup
 [= *Juncus libanoticus* J.Thiébaud] [3, 4, 6, 7]
Juncus ranarius Songeon & E.P.Perrier [= *Juncus bufonius* subsp.
nastanthus (V.I.Krecz. & Gontsch.) Soó] [10, 14]
Juncus salsuginosus Turcz. [1–4, 6–8, 10–13, 15]
Juncus soranthus Schrenk [3, 7]
Juncus triglumis L. [1–4, 6, 7, 10, 13, 14]
Juncus turkestanicus V.I.Krecz. & Gontsch. [= *Juncus bufonius* subsp.
turkestanicus (V.I.Krecz. & Gontsch.) Novikov] [3–5, 7, 9, 10, 14]
Juncus virens Buchenau [= *Juncus papillosus* var. *virens*
 (Buchenau) Vorosch.] [4]
Luzula confusa Lindeb. [1, 2, 6, 7]
Luzula multiflora (Ehrh.) Lej. [3]
Luzula multiflora subsp. *frigida* (Buchenau) V.I.Krecz. [7]
Luzula multiflora subsp. *sibirica* V.I.Krecz. [= *Luzula sibirica* (V.I.Krecz.)
 V.I.Krecz.] [1–4, 6, 7]
Luzula nivalis (Laest.) Spreng. [= *Luzula campestris* var. *nivalis* Laest.] [1]
Luzula pallescens Sw. [1–5, 7, 9]
Luzula parviflora Desv. [1, 2, 3, 6, 7]
Luzula pilosa (L.) Willd. [= *Juncus pilosus* L.] [2]
Luzula rufescens var. *macrocarpa* Buchenau [= *Luzula changaica* Novikov] [3]
Luzula spicata subsp. *mongolica* Novikov [1–3, 6, 7, 13]
Luzula rufescens Fisch. var. *rufescens* [1, 2, 3, 4]

62. Juncaginaceae Juss. (1 genus and 2 species)

- Triglochin maritima* L. [1–16]
Triglochin palustris L. [1–9, 11–16]

63. Lamiaceae Martinov (22 genera and 103 taxa)

Note: The herbarium records of *Phlomis oreophila* in Mongolia was identified as *Phlmodides chinghoensis* by Lazkov (2011).

- Amethystea caerulea* L. [2–11, 13]
Caryopteris mongholica Bunge [2–4, 7–9, 11–13, 15, 16]
Dracocephalum argunense Fisch. [5]
Dracocephalum discolor Bunge [3, 7, 10]
Dracocephalum foetidum Bunge [1–4, 6–13]
Dracocephalum fragile Turcz. [1, 3, 6, 7]
Dracocephalum fruticosum Stephan [3, 4, 6–8, 10–13, 16]
Dracocephalum grandiflorum L. [1–3, 6, 7, 13]
Dracocephalum heterophyllum subsp. *heterophyllum* Benth. [3]
Dracocephalum heterophyllum subsp. *ovalifolium* A.L.Budantzev
 [= *Dracocephalum ovalifolium* (A.L.Budantzev) Doronkin] [3]

	<i>Dracocephalum imberbe</i> Bunge	[1, 6, 7]
	<i>Dracocephalum integrifolium</i> Bunge [= <i>Ruyschiana integrifolia</i> (Bunge) House]	[6, 7]
	<i>Dracocephalum junatovii</i> A.L.Budantzev	[4, 9]
	<i>Dracocephalum moldavicum</i> C.Morren	[12, 13, 15]
	<i>Dracocephalum nodulosum</i> Rupr.	[14]
	<i>Dracocephalum nutans</i> L.	[1, 2, 3, 4, 7]
	<i>Dracocephalum olchonense</i> Peschkova	[4]
	<i>Dracocephalum origanoides</i> Steph. subsp. <i>origanoides</i>	[1, 3, 4, 6–9, 13, 14]
	<i>Dracocephalum origanoides</i> subsp. <i>bungeanum</i> (Schischk. & Serg. A.L.Budantzev [≡ <i>Dracocephalum bungeanum</i> Schischk. & Serg.]	[1, 6, 7, 13]
	<i>Dracocephalum paulsenii</i> Briq.	[14]
	<i>Dracocephalum peregrinum</i> L.	[6, 7]
	<i>Dracocephalum pinnatum</i> L.	[6]
	<i>Dracocephalum ruyschiana</i> L.	[2, 3, 4, 5, 6, 8]
	<i>Elsholtzia ciliata</i> (Thunb.) Hyl.	[2, 4]
	<i>Elsholtzia densa</i> Benth.	[4, 13]
	<i>Galeopsis bifida</i> Boenn. [≡ <i>Galeopsis tetrahit</i> var. <i>bifida</i> (Boenn.) Lej. & Courtois]	[2, 3, 4, 9]
	<i>Hyssopus ambiguus</i> (Trautv.) Iljin [= <i>Hyssopus officinalis</i> var. <i>ambiguus</i> Trautv.]	[7]
	<i>Hyssopus cuspidatus</i> Boriss.	[7, 14]
	<i>Lagochilus bungei</i> Benth.	[7, 14]
	<i>Lagochilus diacanthophyllus</i> Benth.	[6, 7, 14]
	<i>Lagochilus ilicifolius</i> Bunge	[3, 7, 8, 10–16]
E	<i>Lagopsis darwiniana</i> Pjak	[7]
	<i>Lagopsis eriostachya</i> (Benth.) Ikonn.-Gal.	[1, 7, 10, 14]
	<i>Lagopsis flava</i> Kar. & Kir.	[7]
	<i>Lagopsis marrubiastrum</i> (Steph.) Ikonn.-Gal.	[3, 6, 7, 13, 14]
	<i>Lagopsis supina</i> (Steph.) Ikonn.-Gal.	[2, 3, 4, 9]
	<i>Lamium album</i> L.	[1, 2, 4, 5, 7, 9]
	<i>Leonurus deminutus</i> V.I.Krecz. [≡ <i>Leonurus glaucescens</i> var. <i>deminutus</i> (V.I.Krecz.) Karav.]	[1–4, 7, 8, 9, 13]
	<i>Leonurus glaucescens</i> Bunge	[6, 7, 8, 9]
	<i>Leonurus mongolicus</i> V.I.Krecz. & Kuprian.	[2–4, 6–9]
	<i>Leonurus pseudopanzerioides</i> Krestovsk. [= <i>Leonurus cardiaca</i> subsp. <i>turkestanicus</i> (V.I.Krecz. & Kuprian.) Rech.f.]	[7, 14]
	<i>Leonurus sibiricus</i> L.	[1–5, 8, 9, 12]
	<i>Leonurus turkestanicus</i> V.I.Krecz. & Kuprian.	[7]
	<i>Lophanthus chinensis</i> Benth.	[1–4, 6–10, 12, 13]
	<i>Lophanthus krylovii</i> Lipsky	[7]
	<i>Lycopus lucidus</i> Turcz.	[9]

	<i>Mentha aquatica</i> L.	[4]
	<i>Mentha arvensis</i> L.	[2–10, 14]
	<i>Mentha canadensis</i> L.	[2]
	<i>Nepeta annua</i> Pall. [≡ <i>Schizonepeta annua</i> (Pall.) Schischk.]	[3, 6–16]
	<i>Nepeta densiflora</i> Kar. & Kir.	[7, 14]
	<i>Nepeta micrantha</i> Bunge	[7, 14]
	<i>Nepeta multifida</i> L.	[1–5, 7–9, 13]
	<i>Nepeta nuda</i> L.	[6]
	<i>Nepeta pungens</i> Benth.	[14]
	<i>Nepeta sibirica</i> L.	[2, 3, 6, 7, 10, 13, 14]
	<i>Origanum vulgare</i> L.	[1, 6, 9]
	<i>Panzerina canescens</i> (Bunge) Soják	[6, 7, 10, 13]
	<i>Panzerina lanata</i> (L.) Soják [≡ <i>Ballota lanata</i> Willd.]	[2, 3, 4, 6–14, 16]
	<i>Phlomoides agraria</i> (Bunge) Adylov [≡ <i>Phlomis agraria</i> Bunge]	[6, 7]
	<i>Phlomoides alpina</i> (Pall.) Adylov [≡ <i>Phlomis alpina</i> Pall.]	[7]
SE	<i>Phlomoides chinghoensis</i> (C.Y.Wu) Kamelin & Makhm. [≡ <i>Phlomis chinghoensis</i> C.Y.Wu]	[7, 10, 14]
	<i>Phlomoides molucelloides</i> (Bunge) Salmaki [≡ <i>Eremostachys molucelloides</i> Bunge]	[6, 14]
	<i>Phlomoides mongolica</i> (Turcz.) Kamelin & A.L.Budantzev [≡ <i>Phlomis mongolica</i> Turcz.]	[5, 9]
	<i>Phlomoides pratensis</i> (Kar. & Kir.) Adylov [≡ <i>Phlomis pratensis</i> Kar. & Kir.]	[6]
	<i>Phlomoides tuberosa</i> Moench [≡ <i>Phlomis tuberosa</i> L.]	[2–9]
	<i>Phlomoides tuvinica</i> (A.Schroet.) Kamelin [≡ <i>Phlomis tuvinica</i> A.Schroet.]	[6, 7, 8]
	<i>Salvia abrotanoides</i> (Kar.) Sytsma [≡ <i>Perovskia abrotanoides</i> Kar.]	[6]
	<i>Salvia deserta</i> Schangin	[6]
	<i>Scutellaria altaica</i> Ledeb.	[7]
	<i>Scutellaria baicalensis</i> Georgi	[1–5, 8, 9]
	<i>Scutellaria dependens</i> Maxim.	[2, 4]
	<i>Scutellaria galericulata</i> L.	[1–6, 9, 10, 14]
	<i>Scutellaria grandiflora</i> Sims subsp. <i>grandiflora</i>	[2–4, 6, 7, 10, 13, 14]
E	<i>Scutellaria grandiflora</i> subsp. <i>gymnosperma</i> Kamelin & Gubanov	[7, 13]
	<i>Scutellaria krasevii</i> Kom. & I.Schischk.	[3]
	<i>Scutellaria paulsenii</i> Briq.	[7]
	<i>Scutellaria regeliana</i> var. <i>ikonnikovii</i> (Juz.) C.Y.Wu & H.W.Li	[2, 4]
	<i>Scutellaria scordiifolia</i> Fisch.	[1–9]
	<i>Scutellaria sieversii</i> Bunge	[6, 7]
	<i>Scutellaria supina</i> L. [≡ <i>Scutellaria alpina</i> subsp. <i>supina</i> (L.) I.Richardson]	[7, 14]
	<i>Scutellaria tuvensis</i> Juz. [≡ <i>Scutellaria grandiflora</i> subsp. <i>tuvensis</i> (Juz.) Kamelin & Gubanov]	[10]
	<i>Scutellaria viscidula</i> Bunge	[9]

	<i>Stachys aspera</i> subsp. <i>baicalensis</i> (Fisch.) Krestovsk. [≡ <i>Stachys baicalensis</i> Fisch.]	[2, 3, 4, 5]
	<i>Stachys palustris</i> L.	[2–6, 9, 10]
	<i>Thymus altaicus</i> Klokov & Des.-Shost.	[3, 6, 7, 10]
	<i>Thymus baicalensis</i> Serg.	[1, 2, 3, 4, 10]
	<i>Thymus bituminosus</i> Klokov	[1]
	<i>Thymus dahuricus</i> Serg.	[2, 4, 5, 8, 9]
E	<i>Thymus gobi-altaicus</i> (N.Ulziykh.) Kamelin & A.L.Budantzev	[13]
	<i>Thymus gobicus</i> Tscherneva	[2, 3, 4, 7–13]
	<i>Thymus komarovii</i> Serg.	[9]
	<i>Thymus michaelis</i> Kamelin & A.L.Budantzev	[2, 4, 8, 9]
	<i>Thymus minussinensis</i> Serg.	[10]
	<i>Thymus mongolicus</i> (Ronniger) Ronniger	[3, 7, 9, 13]
	<i>Thymus narymensis</i> Serg.	[7]
	<i>Thymus pavlovii</i> Serg.	[1, 3]
	<i>Thymus roseus</i> Schipcz.	[7]
	<i>Thymus sibiricus</i> Klokov & Des.-Shost.	[4]
	<i>Thymus turczaninonii</i> Serg.	[9]
	<i>Ziziphora clinopodioides</i> Lam. subsp. <i>clinopodioides</i>	[7, 14]
	<i>Ziziphora clinopodioides</i> subsp. <i>bungeana</i> (Juz.) Rech.f. [≡ <i>Ziziphora bungeana</i> Juz.]	[6, 7, 13]
	<i>Ziziphora pamiroalaica</i> Juz.	[7, 14]

64. **Lentibulariaceae** Rich. (2 genera and 7 species)

	<i>Pinguicula alpina</i> L.	[1]
	<i>Pinguicula vulgaris</i> L.	[1]
	<i>Utricularia australis</i> R.Br.	[10, 14]
	<i>Utricularia intermedia</i> Hayne [≡ <i>Lentibularia intermedia</i> (Hayne) Nieuwl. & Lunell]	[1, 2, 3, 6]
	<i>Utricularia</i> × <i>japonica</i> Makino	[10]
	<i>Utricularia minor</i> L.	[3, 9, 10, 14]
	<i>Utricularia vulgaris</i> L. [≡ <i>Lentibularia vulgaris</i> (L.) Moench]	[1–11, 14, 15]

65. **Liliaceae** Juss. (5 genera and 15 taxa)

	<i>Erythronium sibiricum</i> (Fisch. & C.A.Mey.) Krylov	[7]
SE	<i>Fritillaria dagana</i> Turcz.	[1, 2, 3]
	<i>Gagea brevistoloniifera</i> Levichev	[7]
	<i>Gagea filiformis</i> Merckl.	[7]
	<i>Gagea granulosa</i> Turcz.	[7]
	<i>Gagea hiensis</i> Pasch. [= <i>Gagea terraccianoana</i> Pasch.]	[1, 2]
SE	<i>Gagea kuraiensis</i> Levichev	[7]
	<i>Gagea fragifera</i> (Vill.) Ehr.Bayer & G.López [= <i>Gagea liotardii</i> (Sternb.) Schult. & Schult. f.]	[7]

- Gagea pauciflora* Turcz. [1–5, 7, 9, 14]
Gagea serotina (L.) Ker Gawl. [= *Lloydia serotina* (L.) Salisb.] [1–3, 6, 7, 13]
Lilium concolor var. *partheneion* (Siebold & de Vriese) Baker
 [= *Lilium buschianum* G.Lodd.] [5]
Lilium martagon L. [1–7]
Lilium pensylvanicum Ker Gawl. [= *Lilium dauricum* Ker Gawl.] [2, 4, 5]
Lilium pumilum Redouté [= *Lilium potaninii* Vriehcz] [1–5, 8, 9, 12]
Tulipa uniflora (L.) Besser [3, 5, 7–10, 14]
- 66. Linaceae** DC. (1 genus and 5 species)
- Linum altaicum* Ledeb. [1, 6, 7, 8, 9]
Linum baicalense Juz. [1–5, 7–9, 13]
Linum pallescens Bunge [2–5, 7–10, 13, 14]
Linum perenne L. [7, 14]
Linum violascens Bunge [7]
- 67. Lythraceae** J.St.-Hil. (1 genus and 3 species)
- Lythrum salicaria* L. [4]
Lythrum virgatum L. [6, 14]
Lythrum borysthenticum (Schränk) Litv. [= *Peplis borysthentica* Schrank] [10]
- 68. Malvaceae** Juss. (2 genera and 5 species)
- Abutilon theophrasti* Medik. [15]
Malva neglecta Wallr. [4, 7, 10, 11, 14]
Malva pusilla Sm. [13, 14, 15]
Malva sylvestris L. [13, 15]
Malva verticillata L. [1–4, 7, 8, 10, 16]
- 69. Mazaceae** Reveal (3 genera and 3 species)
- Note: Mazaceae was separated from Phrymaceae according to APG IV (2016).
- Dodartia orientalis* L. [6, 7, 14]
Lancea tibetica Hook.f. & Thomson [1, 3]
Mazus stachydifolius Maxim. [5]
- 70. Melanthiaceae** Batsch (3 genera and 5 species)
- Anticlea sibirica* (L.) Kunth [= *Zigadenus sibiricus* (L.) A.Gray] [1, 3]
Paris quadrifolia L. [2, 3, 4, 5]
Paris verticillata M.Bieb. [2, 4, 5]
Veratrum lobelianum Bernh. [1, 3, 4, 5, 7, 9]
Veratrum nigrum L. [3, 4, 5, 9]

- 71. Menispermaceae** Juss. (1 genus and 1 species)
Menispermum dauricum DC. [2, 3, 4, 5]
- 72. Menyanthaceae** Dumort. (2 genera and 2 species)
Nymphoides peltata (S.G.Gmel.) Kuntze [1, 3, 8–10, 14]
Menyanthes trifoliata L. [1, 2, 3, 4]
- 73. Molluginaceae** Bartl. (1 genus and 1 species)
Hypertelis cerviana (L.) Thulin [= *Mollugo cerviana* (L.) Ser.] [12, 14, 15]
- 74. Montiaceae** Raf. (1 genus and 1 species)
Claytonia joanneana Roem. & Schult. [1, 2, 3, 4, 6, 7]
- 75. Nitrariaceae** Lindl. (2 genera and 5 species)
Nitraria roborowskii Kom. [= *Nitraria schoberi* var. *roborowskii* (Kom.) Grubov] [7, 10, 13, 14, 15]
Nitraria sibirica Poir. [4, 6–16]
Nitraria sphaerocarpa Maxim. [13, 15, 16]
Peganum harmala L. [= *Peganum multisectum* (Maxim.) Bobrov] [7, 10, 13, 14, 15]
Peganum nigellastrum Bunge [3, 4, 8–13, 16]
- 76. Nymphaeaceae** Salisb. (2 genera and 2 species)
Note: Recently, this family was revised based on field observations and extensive herbarium specimens in Mongolia (Baasanmunkh et al. 2022b). *Nymphaea tetragona* Georgi is not recorded in Mongolia, according to Baasanmunkh et al (2022b).
Nuphar pumila (Timm) DC. [1, 3, 10, 11]
Nymphaea candida J.Presl. [1, 3, 7, 10, 11]
- 77. Onagraceae** Juss. (2 genera and 12 taxa)
Circaea alpina L. subsp. *alpina* [2, 3, 4, 5]
Circaea alpina subsp. *caulescens* (Kom.) Tatew. [3]
Epilobium anagallidifolium Lam. [= *Epilobium alpinum* L.] [7]
Epilobium angustifolium L. [= *Chamaenerion angustifolium* (L.) Schur] [1–9, 14]
Epilobium ciliatum Raf. [2]
Epilobium davuricum Fisch. [2, 3, 4, 11]
Epilobium fastigiato-ramosum Nakai [= *Epilobium baicalense* Popov] [3, 4, 9]
Epilobium hirsutum L. [3, 6]
Epilobium latifolium L. [= *Chamaenerion latifolium* (L.) Sweet] [1–3, 6, 7, 13, 14]
Epilobium minutiflorum Hausskn. [7, 10, 15]
Epilobium nervosum Boiss. & Buhse [7]
Epilobium palustre L. [1–10, 13–15]

78. Orchidaceae Juss. (14 genera and 26 taxa)

Note: Orchids of Mongolia were recently revised by Baasanmunkh et al. (2021b).

<i>Calypso bulbosa</i> (L.) Oakes [= <i>Cypripedium bulbosum</i> L.]	[2, 4]
<i>Corallorhiza trifida</i> Châtel.	[1, 2, 4]
<i>Cypripedium calceolus</i> L..	[1, 2, 4]
<i>Cypripedium guttatum</i> Sw.	[1, 2, 3, 4, 5]
<i>Cypripedium macranthos</i> Sw.	[1, 2, 4, 5]
<i>Cypripedium</i> x <i>ventricosum</i> Sw.	[2]
<i>Dactylorhiza fuchsii</i> (Druce) Soó	[2, 4]
<i>Dactylorhiza incarnata</i> (L.) Soó	[3, 5]
<i>Dactylorhiza incarnata</i> subsp. <i>cruenta</i> (O.F.Müll.) P.D.Sell	[3]
<i>Dactylorhiza salina</i> (Turcz.) Soó	[1–11, 14]
<i>Dactylorhiza umbrosa</i> (Kar. & Kir.) Nevski	[1, 3, 4, 7, 10, 14]
<i>Dactylorhiza viridis</i> (L.) R.M.Bateman [= <i>Coeloglossum viride</i> (L.) Hartm.]	[1–7]
<i>Epipogium aphyllum</i> Sw.	[1, 2, 3, 4]
<i>Goodyera repens</i> (L.) R.Br.	[1, 2, 3, 4, 6]
<i>Gymnadenia conopsea</i> (L.) R.Br. [≡ <i>Orchis conopsea</i> L.]	[1–5]
<i>Herminium alaschanicum</i> Maxim. [≡ <i>Peristylus alaschanicus</i> (Maxim.) N.Pearce & P.J.Cribb]	[16]
<i>Herminium monorchis</i> R.Br.	[1–5, 8, 9, 10]
<i>Malaxis monophyllos</i> (L.) Sw. [≡ <i>Ophrys monophyllos</i> L.]	[1, 2, 3, 4, 5]
<i>Neottia camtschatea</i> Sprengel	[1, 2, 3, 7]
<i>Neottia puberula</i> (Maxim.) Szlach. [≡ <i>Listera puberula</i> Maxim.]	[5]
<i>Orchis militaris</i> L.	[3, 4]
<i>Platanthera bifolia</i> (L.) Rich.	[1, 2, 3, 4]
<i>Platanthera fuscescens</i> Kraenzl.	[2, 3, 4, 5]
<i>Platanthera oligantha</i> Turcz.	[1, 3]
<i>Ponerorchis cucullata</i> (L.) X.H.Jin [≡ <i>Neottianthe cucullata</i> (L.) Schltr.]	[1, 2, 3, 4]
<i>Spiranthes australis</i> Lindl.	[2–5, 8, 9, 10]

79. Orobanchaceae Vent. (9 genera and 57 taxa)

<i>Boschniakia rossica</i> (Cham. & Schltdl.) B.Fedtsch.	[2]
<i>Castilleja pallida</i> (L.) Spreng.	[1–9, 13]
<i>Cistanche deserticola</i> Ma	[7, 10–16]
<i>Cistanche feddeana</i> K.S.Hao	[9, 12, 13, 16]
<i>Cistanche lanzhouensis</i> Zhi Y.Zhang	[12]
<i>Cistanche salsa</i> (C.A.Mey.) Beck	[12–16]
<i>Cymbaria daurica</i> L.	[2–5, 7–13]
<i>Euphrasia altaica</i> Serg.	[7]
<i>Euphrasia hirtella</i> Jord.	[2, 3, 4, 5]
<i>Euphrasia maximowiczii</i> Wettst.	[2, 4, 5, 9]
<i>Euphrasia pectinata</i> Ten.	[1–10, 13, 14]
<i>Euphrasia schischkinii</i> Serg.	[7]

	<i>Euphrasia syreitschikovii</i> Govor.	[1, 2, 3, 5–8]
	<i>Odontites vulgaris</i> Moench	[2–4, 7–11, 14]
	<i>Orobanche amoena</i> C.A.Mey.	[7, 14]
	<i>Orobanche caesia</i> Rchb. [= <i>Phelypaea lanuginosa</i> C.A.Mey. ≡ <i>Orobanche lanuginosa</i> (C.A.Mey.) Beck]	[1, 2, 3, 4]
	<i>Orobanche cernua</i> Loeffl.	[7, 10, 13, 14]
	<i>Orobanche coerulescens</i> Steph. [≡ <i>Orobanchella coerulescens</i> (Steph.) Piwow.]	[5, 7–15]
	<i>Orobanche coerulescens</i> var. <i>albiflora</i> Kuntze [= <i>Orobanche korshinskyi</i> Novopokr.]	[1–15]
	<i>Orobanche pycnostachya</i> Hance	[5]
	<i>Pedicularis abrotanifolia</i> M.Bieb.	[1, 3, 6, 7, 13, 14]
	<i>Pedicularis achilleifolia</i> Steph.	[1, 3, 6–8, 10, 14]
	<i>Pedicularis altaica</i> Steph.	[6, 7, 10, 14]
	<i>Pedicularis amoena</i> Adams	[1–3, 6, 7, 13, 14]
	<i>Pedicularis anthemifolia</i> Fisch.	[1, 3, 6, 7, 13]
	<i>Pedicularis compacta</i> Steph.	[1, 2, 3, 6, 7]
	<i>Pedicularis dolichorrhiza</i> Schrenk	[7, 14]
	<i>Pedicularis elata</i> Willd.	[3, 6, 7]
SE	<i>Pedicularis fetisowii</i> Regel	[14]
	<i>Pedicularis fissa</i> Turcz.	[2, 7]
	<i>Pedicularis flava</i> Pall.	[2–4, 6–11, 13–15]
SE	<i>Pedicularis incarnata</i> L.	[1]
	<i>Pedicularis labradorica</i> Wirsing	[1, 2, 3, 4]
	<i>Pedicularis lapponica</i> L.	[1]
	<i>Pedicularis lasiostachys</i> Bunge	[3, 6, 7]
	<i>Pedicularis longiflora</i> Rudolph	[1, 2, 3, 7, 11]
	<i>Pedicularis moschata</i> Maxim.	[6, 7, 10]
	<i>Pedicularis myriophylla</i> Pall.	[1–4, 6–8, 13]
	<i>Pedicularis oederi</i> Vahl	[1, 2, 3, 6, 7]
	<i>Pedicularis palustris</i> L. subsp. <i>karoii</i> (Freyn) P.C.Tsoong [≡ <i>Pedicularis karoii</i> Freyn]	[1–6, 8, 9, 10, 14]
	<i>Pedicularis physocalyx</i> Bunge	[7]
	<i>Pedicularis proboscidea</i> Steven	[7]
	<i>Pedicularis resupinata</i> L.	[1–6, 8–10, 13]
	<i>Pedicularis rhinanthoides</i> Schrenk	[7]
	<i>Pedicularis rubens</i> Steph.	[1, 2, 3, 4, 5]
	<i>Pedicularis scepterum-carolinum</i> L.	[2, 3, 4, 5, 7]
	<i>Pedicularis sibirica</i> Vved.	[1, 3, 7]
	<i>Pedicularis spicata</i> Pall.	[3, 4, 5]
	<i>Pedicularis striata</i> Pall.	[1–5, 8, 9]
	<i>Pedicularis sudetica</i> Willd.	[1, 2]
	<i>Pedicularis tristis</i> L.	[1, 2, 3, 6, 7, 8]

- Pedicularis uliginosa* Bunge [1–4, 6, 7, 10, 13]
Pedicularis venusta Schangin [1–4, 6–11]
Pedicularis verticillata L. [1, 2, 3, 4, 5, 9]
Pedicularis wlassoviana Steven [2]
Rhinanthus serotinus Oborny [2]
Rhinanthus songaricus (Sterneck) B.Fedtsch. [≡ *Rhinanthus borbasii*
(Dörf.) Soó subsp. *songaricus* (Sterneck) Soó] [2, 3, 4]
- 80. Oxalidaceae** R.Br. (1 genus and 1 species)
Oxalis acetosella L. [1, 2]
- 81. Paeoniaceae** Raf. (1 genus and 3 species)
Paeonia anomala L. [1, 2, 3, 4, 6, 7]
Paeonia intermedia C.A.Mey. [6, 7]
Paeonia lactiflora Pall. [2, 4, 5, 9]
- 82. Papaveraceae** Juss. (6 genera and 30 species)
Chelidonium majus L. [1–5, 7, 9]
Corydalis adunca Maxim. [6, 7, 13, 14, 15]
Corydalis capnoides Pers. [2, 6, 7, 9, 14]
Corydalis grubovii Mikhailova [6, 7]
Corydalis impatiens Fisch. [1, 2, 3, 7]
Corydalis inconspicua Bunge [1, 2, 6, 7]
Corydalis pauciflora Pers. [1, 2, 6, 13]
Corydalis sajanensis Peschkova [≡ *Corydalis pauciflora* subsp.
saianensis (Peschkova) Mikhailova] [1]
Corydalis schanginii (Pall.) B.Fedtsch. [7, 14]
Corydalis sibirica Pers. [1–4, 6–8, 10, 13]
Corydalis stricta Steph. [= *Corydalis grubovii* Mikhailova] [6, 7, 13]
Fumaria officinalis L. [7]
Fumaria schleicheri Soy.-Will. [7, 14]
Glaucium elegans Fisch. & C.A.Mey. [14]
Glaucium squamigerum Kar. & Kir. [7, 14]
Hypecoum erectum L. [2–5, 8, 9, 11, 12]
Hypecoum lactiflorum (Kar. & Kir.) Pazii [3, 4, 6–16]
Hypecoum leptocarpum Hook.f. & Thomson [3]
E *Papaver baitagense* Kamelin & Gubanov [6, 7, 14]
Papaver canescens Tolm. [1–7, 13]
Papaver chakassicum Peschkova [6, 7]
Papaver lapponicum (Tolm.) Nordh. [7]
Papaver nudicaule L. [1–7, 9, 13]
Papaver pseudocanescens Popov [1, 3, 6, 7, 13]
Papaver pseudotenellum Grubov [7, 10, 13, 14]

- Papaver refractum* (DC.) K.-F.Günther [= *Roemeria refracta* DC.] [3, 14]
Papaver rubroaurantiacum (Fisch.) C.E.Lundstr. [1–10, 13]
 SE *Papaver saichanense* Grubov [= *Papaver rubroaurantiacum* subsp. *saichanense* (Grubov) Kamelin & Gubanov] [7, 13]
Papaver smirnovii Peschkova [= *Papaver rubroaurantiacum* subsp. *smirnovii* (Peschkova) Kamelin & Gubanov] [4, 9]
Papaver setosum (Tolm.) Peschkova [= *Papaver rubroaurantiacum* subsp. *setosum* Tolm.] [4]

83. Phyllanthaceae Martinov (1 genus and 1 species)

- Flueggea suffruticosa* Baill. [5, 9]

84. Plantaginaceae Juss. (7 genera and 47 species)

- Callitriche hermaphroditica* L. [1, 3, 4, 5]
Callitriche palustris L. [1–5, 7, 9–11, 14]
Hippuris vulgaris L. [1–11, 13, 14]
Lagotis integrifolia (Willd.) Schischk. [1, 2, 3, 7, 13]
Linaria acutiloba Fisch. [= *Linaria vulgaris* Mill. subsp. *acutiloba* (Fisch.) D.Y.Hong] [1–4, 6–8, 13, 14]
Linaria altaica Fisch. [3, 6, 7, 10, 14]
Linaria buriatica Turcz. [1–6, 8, 9]
Linaria debilis Kuprian. [7, 14]
Linaria hepatica Bunge [6, 7, 11, 13, 14]
Linaria incompleta Kuprian. [7]
Linaria melampyroides Kuprian. [3, 4, 5, 7, 9]
Linaria pedicellata Kuprian. [6, 7, 10, 13, 14]
Plantago arachnoidea Schrenk [= *Plantago lorata* (J.Z.Liu) Shipunov
 = *Plantago arachnoidea* var. *lorata* J.Z.Liu] [14]
Plantago cornuti Gouan [2, 9, 10]
Plantago depressa Willd. [1–10, 12, 13]
Plantago komarovii Pavlov [1, 3, 6, 7, 13]
Plantago major L. [2–14]
Plantago maritima subsp. *ciliata* Printz [= *Plantago salsa* Pall.] [1–6, 8–11, 13, 14]
Plantago minuta Pall. [3, 7, 8, 10–15]
Plantago polysperma Kar. & Kir. [10, 13, 15]
Plantago urvillei Opiz [2]
Veronica anagallis-aquatica L. [1–4, 7–16]
Veronica anagalloides Guss. [10]
Veronica arenosa (Serg.) Boriss. [= *Veronica laeta* auct. non Kar. & Kir.] [2, 3, 6, 7, 8, 14]
Veronica beccabunga L. [3, 7, 8]
Veronica biloba Schreb. [3, 6, 7, 14, 15]
Veronica ciliata Fisch. [1, 2, 3, 6, 7]

	<i>Veronica daurica</i> Steven	[2, 4, 5, 8, 9]
	<i>Veronica densiflora</i> Ledeb.	[2, 7]
	<i>Veronica ferganica</i> Popov	[6, 7, 14]
	<i>Veronica hispidula</i> Boiss. & Huet [= <i>Veronica pusilla</i> Hohen. & Boiss.]	[7]
	<i>Veronica incana</i> L.	[1–11, 13]
	<i>Veronica krylovii</i> Schischkin	[9]
	<i>Veronica linariifolia</i> Link	[1–5, 8, 9]
	<i>Veronica longifolia</i> L.	[1–4, 6, 7, 9, 10]
	<i>Veronica macrostemon</i> Bunge	[1, 7]
	<i>Veronica oxycarpa</i> Boiss. [= <i>Veronica anagallis-aquatica</i> subsp. <i>oxycarpa</i> (Boiss.) A. Jelen]	[7]
	<i>Veronica pinnata</i> subsp. <i>nana</i> Polozhij	[7]
	<i>Veronica pinnata</i> L. subsp. <i>pinnata</i>	[2–4, 6–8, 10, 14]
	<i>Veronica porphyriana</i> Pavlov	[7, 14]
	<i>Veronica sajanensis</i> Printz	[7]
E	<i>Veronica sapozhnikovii</i> Kosachev	[7, 14]
	<i>Veronica scutellata</i> L.	[7]
	<i>Veronica</i> × <i>schmakovii</i> Kosachev	[7]
	<i>Veronica</i> × <i>smirnovii</i> Kosachev & D.A.German	[7]
	<i>Veronicastrum sibiricum</i> (L.) Pennell	[2, 4, 5, 6, 7, 9]
	<i>Veronicastrum tubiflorum</i> (Fisch. & C.A.Mey.) Soják [≡ <i>Veronica tubiflora</i> Fisch. & C.A.Mey.]	[4]

85. Plumbaginaceae Juss. (4 genera and 20 taxa)

	<i>Armeria maritima</i> subsp. <i>sibirica</i> (Turcz.) Nyman [= <i>Armeria sibirica</i> Turcz.]	[3, 7]
	<i>Goniolimon callicomum</i> Boiss.	[7, 14]
	<i>Goniolimon eximium</i> Boiss.	[7]
	<i>Goniolimon krylovii</i> A.V.Grebenjuk	[7, 14]
	<i>Goniolimon speciosum</i> Boiss.	[1–4, 6–15]
	<i>Limonium aureum</i> (L.) Hill	[3–13, 15, 16]
	<i>Limonium bicolor</i> Kuntze	[4, 6, 8, 9, 11–14]
	<i>Limonium chrysocomum</i> (Kar. & Kir.) Kuntze	[3, 7, 10, 11, 13–15]
	<i>Limonium chrysocomum</i> subsp. <i>semenovii</i> (Herder) Kamelin	[7, 11, 13]
	<i>Limonium congestum</i> Kuntze	[6, 7, 10]
	<i>Limonium coralloides</i> (Tausch) Lincz.	[6, 10, 14]
	<i>Limonium flexuosum</i> Kuntze	[1–4, 6–9, 12, 13]
	<i>Limonium gmelinii</i> Kuntze	[6, 10, 14]
E	<i>Limonium gobicum</i> Ikonn.-Gal.	[12]
E	<i>Limonium grubovii</i> Lincz.	[9]
E	<i>Limonium klementzii</i> Ikonn.-Gal.	[7, 10, 15]
	<i>Limonium myrianthum</i> Kuntze	[14]
	<i>Limonium suffruticosum</i> Kuntze	[14]

- Limonium tenellum* Kuntze [4, 8, 9, 11–13, 15, 16]
Plumbagella micrantha (Ledeb.) Spach [3, 4]

86. Poaceae Barnhart (58 genera and 229 taxa)

Note: The genus *Stipa* L. was recently revised which included a taxonomic key and species synopsis by Zhao et al (2019).

- Achnatherum caragana* (Trin.) Nevski [= *Stipa conferta* Poir.] [7]
Achnatherum confusum (Litv.) Tzvelev [= *Stipa confusa* Litv.] [2, 3, 4]
SE *Achnatherum inebrians* (Hance) Keng [= *Stipa inebrians* Hance] [7, 12, 13, 16]
SE *Achnatherum pelliotii* (Danguy) Röser & Hamasha [= *Stipa pelliotii* Danguy] [7, 11–16]
Achnatherum sibiricum (L.) Keng [= *Stipa sibirica* (L.) Lam.] [1–13]
Aeluropus littoralis (Gouan) Parl. [10, 14, 15]
Agropyron cristatum (L.) Gaertn. [= *Bromus cristatus* L.] [1–7, 9–15]
Agropyron desertorum Schult. [3, 6–9, 11–13, 15]
Agropyron fragile (Roth) P.Candargy [6, 8, 9, 11, 12, 14]
Agropyron krylovianum Schischk. [= *Kengyilia kryloviana* (Schischk.) C.Yen, J.L.Yang & B.R.Baum] [4, 6, 7]
Agropyron michnoi Roshev. [= *Agropyron cristatum* (L.) Gaertn. subsp. *michnoi* (Roshev.) Á.Löve] [1, 3–5, 8–10, 13, 14]
Agropyron pumilum (Steud.) P.Candargy [6, 10, 14]
Agrostis clavata Trin. [= *Agrostis exarata* subsp. *clavata* (Trin.) T.Koyama] [1, 2, 3, 4, 5, 9]
Agrostis divaricatissima Mez [= *Agrostis mongolica* Roshev.] [2–13, 15]
Agrostis gigantea Roth [1–7, 9, 10, 13, 14]
Agrostis stolonifera L. [1, 3, 4, 7–10, 14]
SE *Agrostis tuvinica* Peschkova [1, 2]
Agrostis vinealis Schreb. [= *Agrostis trinii* Turcz.] [1–10, 13]
Alopecurus aequalis Sobol. [1–10, 12]
Alopecurus arundinaceus Poir. [1–10, 12–14]
Alopecurus brachystachyus M.Bieb. [1–10, 13]
Alopecurus pratensis L. [3, 4, 6, 8–10, 13, 14]
SE *Alopecurus turczaninovii* O.D.Nikif. [1–4, 6–8, 13]
Anthoxanthum glabrum (Trin.) Veldkamp [= *Hierochloe glabra* Trin.] [1–10]
Anthoxanthum monticola (Bigelow) Veldkamp [= *Holcus monticola* Bigelow] [1–3, 6, 7, 10]
Anthoxanthum nitens (Weber) Y.Schouten & Veldkamp
[= *Poa nitens* Weber = *Hierochloe odorata* (L.) P.Beauv.] [1–4, 6–10, 14]
Anthoxanthum odoratum L. [2, 3, 4, 5, 7]
Arctagrostis latifolia Griseb. [1, 2, 3]
Arctopoa schischkinii (Tzvelev) Prob. [= *Poa schischkinii* Tzvelev] [1, 7, 8]
Arctopoa tibetica (Munro) Prob. [= *Poa tibetica* Munro] [1, 3, 6–8, 10–15]

- Aristida adscensionis* L. [3, 8–13, 15, 16]
Arundinella hirta (Thunb.) Tanaka [= *Poa hirta* Thunb.] [4, 5, 9]
Beckmannia syzigachne Fernald [1–6, 8–16]
Brachypodium pinnatum (L.) P.Beauv. [= *Bromus pinnatus* L.] [3, 4]
Bromus inermis Leyss. [1–10, 12–15]
Bromus japonicus Thunb. [6, 7, 10, 12, 14]
Bromus oxyodon Schrenk [7, 11, 14]
Bromus pumpellianus Scribn. [= *Bromus korotkiji* Drobow] [3, 4, 7–11, 13]
Bromus scoparius L. [14]
Bromus squarrosus L. [10]
Bromus tectorum L. [7, 14]
Calamagrostis angustifolia Kom. [= *Calamagrostis angustifolia* subsp.
tenuis (V.N.Vassil.) Tzvelev] [1–11, 13, 14]
Calamagrostis epigejos (L.) Roth [= *Calamagrostis epigejos* subsp.
glomerata (Boiss. & Buhse) Tzvelev] [2, 4, 5, 9]
Calamagrostis inexpansa A.Gray [= *Calamagrostis inexpansa* subsp.
micrantha (Kearney) Stebbins] [2, 3, 4, 5]
Calamagrostis korotkyi Litv. [= *Deyeuxia korotkyi* (Litv.) S.M.Phillips &
W.L.Chen] [1, 2, 3, 4, 6]
SE *Calamagrostis* × *kuznetzovii* Tzvelev [4]
Calamagrostis lapponica (Wahlenb.) Hartm. [= *Arundo lapponica* Wahlenb.]
[1–4, 6–8, 10, 13–15]
Calamagrostis macilenta Litv. [1–4, 7–13, 15]
Calamagrostis macrolepis Litv. [= *Calamagrostis epigejos* subsp.
macrolepis (Litv.) Tzvelev] [2, 3, 4]
Calamagrostis obtusata Trin. [3, 4]
Calamagrostis pavlovii (Roshev.) Roshev. [1–4, 7, 8, 10, 11]
Calamagrostis pseudophragmites (Haller f.) Koeler
[= *Arundo pseudophragmites* Haller f.] [1–7, 9]
Calamagrostis purpurea (Trin.) Trin. [= *Arundo purpurea* Trin.] [2, 3, 4, 10]
SE *Calamagrostis sajanensis* Malyshev [8, 9, 10, 13]
Calamagrostis salina Tzvelev [1–5, 8, 9, 13]
Calamagrostis stricta (Timm) Koeler [= *Arundo stricta* Timm] [2]
Catabrosa aquatica (L.) P.Beauv. [2–4, 8–10, 13]
Cenchrus flaccidus (Griseb.) Morrone [= *Pennisetum flaccidum* Griseb.]
[10, 12]
Cinna latifolia (Trevir.) Griseb. [= *Agrostis latifolia* Trevir.] [2, 3, 4]
SE *Cleistogenes caespitosa* Keng [12]
SE *Cleistogenes festucacea* Honda [= *Cleistogenes foliosa* Keng] [4, 12, 13]
Cleistogenes kitagawae Honda [= *Kengia kitagawae* (Honda) Packer]
[2–5, 8, 9]
Cleistogenes songorica (Roshev.) Ohwi [4, 7–16]
Cleistogenes squarrosa (Trin.) Keng [2–13]

	<i>Colpodium altaicum</i> Trin.	[1, 7]
	<i>Deschampsia caespitosa</i> P.Beauv. subsp. <i>caespitosa</i>	[1–4, 6, 7, 8]
	<i>Deschampsia caespitosa</i> subsp. <i>orientalis</i> Hultén	[1, 2, 3, 4, 5]
	<i>Deschampsia caespitosa</i> subsp. <i>pamirica</i> (Roshev.) Tzvelev [≡ <i>Deschampsia pamirica</i> Roshev.]	[1, 3]
	<i>Deschampsia koelerioides</i> Regel	[1, 2, 3, 6, 7]
	<i>Echinochloa crus-galli</i> (L.) P.Beauv.	[4, 7, 9, 12, 13]
	<i>Elymus bungeanus</i> (Trin.) Melderis	[2, 4, 6, 7, 12, 14, 15]
	<i>Elymus confusus</i> (Roshev.) Tzvelev [≡ <i>Roegneria confusa</i> (Roshev.) Nevski]	[1–4, 7, 8, 13]
	<i>Elymus dahuricus</i> Turcz.	[1–10, 13]
	<i>Elymus fedtschenkoi</i> Tzvelev [≡ <i>Roegneria fedtschenkoi</i> (Tzvelev) J.L.Yang & C.Yen]	[7]
	<i>Elymus gmelinii</i> (Ledeb.) Tzvelev	[1–5, 7, 8, 9, 13]
SE	<i>Elymus karakabinicus</i> Kotukhov	[7]
	<i>Elymus macrourus</i> (Turcz.) Tzvelev [= <i>Elymus kronokensis</i> (Kom.) Tzvelev, <i>Elymus kronokensis</i> subsp. <i>subalpinus</i> (Neuman) Tzvelev]	[1, 4, 7]
	<i>Elymus mutabilis</i> (Drobow) Tzvelev [= <i>Elymus transbaicalensis</i> (Nevski) Tzvelev = <i>Elymus praecaespitosus</i> (Nevski) Tzvelev]	[1, 2, 3, 4, 6, 7]
	<i>Elymus nutans</i> Griseb.	[3, 4, 9, 13]
	<i>Elymus pendulinus</i> (Nevski) Tzvelev [= <i>Agropyron vernicosum</i> Nevski = <i>Elymus brachypodioides</i> (Nevski) Peschkova]	[4, 5, 7, 9, 12, 13, 16]
	<i>Elymus reflexiaristatus</i> (Nevski) Melderis [= <i>Elymus aegilopoides</i> (Drobow) Vorosch.]	[1–7, 12, 13, 14]
	<i>Elymus repens</i> (L.) Gould [= <i>Elytrigia repens</i> (L.) Nevski]	[2–11, 13–15]
	<i>Elymus schrenkianus</i> (Fisch. & C.A.Mey.) Tzvelev [= <i>Elymus pamiricus</i> Tzvelev]	[3, 4, 7, 13]
	<i>Elymus sibiricus</i> L.	[1–10, 12–16]
	<i>Elymus uralensis</i> (Nevski) Tzvelev [= <i>Elymus uralensis</i> subsp. <i>komarovii</i> (Nevski) Tzvelev]	[2, 3, 4, 6, 13]
	<i>Elymus varius</i> (Keng) Tzvelev	[4]
	<i>Enneapogon desvauxii</i> P.Beauv.	[3, 4, 6–15]
	<i>Eragrostis cilianensis</i> (All.) Vignolo	[10]
	<i>Eragrostis minor</i> Host	[2, 3, 4, 6–16]
	<i>Eragrostis pilosa</i> (L.) P.Beauv. [= <i>Eragrostis pilosa</i> subsp. <i>imberbis</i> (Franch.) Tzvelev]	[2, 4, 7–10, 12]
	<i>Eremopyrum distans</i> (K.Koch) Nevski	[14]
	<i>Festuca altaica</i> Trin.	[1, 3, 4, 6, 7]
	<i>Festuca brachyphylla</i> Schult. & Schult.f.	[1, 3, 6, 7, 13]
	<i>Festuca dahurica</i> V.I.Krecz. & Bobr.	[2, 4, 5, 9]
	<i>Festuca extremiorientalis</i> Ohwi	[2]
SE	<i>Festuca hubsugulica</i> Krivot. [= <i>Festuca sumneviczii</i> Serg.]	[1]
	<i>Festuca jacutica</i> Drobow	[4, 9]

- Festuca komarovii* Krivot. [1, 2]
Festuca kryloviana Reverd. [1–4, 6, 7, 9, 13]
Festuca kurtschumica E.B.Alexeev [7]
Festuca lenensis Drobow [1–9, 13, 15]
Festuca litvinovii (Tzvelev) E.B.Alexeev [9]
Festuca oreophila Markgr.-Dann. [= *Festuca valesiaca* subsp. *hypsochila* (St.-Yves) Tzvelev] [1–4, 6, 7, 13, 14]
Festuca ovina L. [= *Festuca ovina* subsp. *sphagnicola* (B.Keller) Tzvelev] [1–7, 9, 13]
SE *Festuca pseudosulcata* Drobow [4]
Festuca rubra L. [1–9, 13]
Festuca sibirica Hack. [1–5, 8–10, 13]
Festuca tristis Krylov & Ivanitzk. [3, 6, 7]
SE *Festuca tschujensis* Reverd. [3, 6, 7, 10]
Festuca valesiaca Schleich. [1–10, 13]
Festuca venusta St.-Yves [1, 2, 3, 4]
Glyceria arundinacea Kunth [1–10, 14]
Glyceria lithuanica (Gorski) Gorski [3, 5]
Glyceria spiculosa Roshev. [= *Glyceria longiglumis* Hand.-Mazz.] [4, 5, 9]
Helictochloa dahurica (Kom.) Romero Zarco
[≡ *Helictotrichon dahuricum* (Kom.) Kitag.] [1, 4, 5]
Helictochloa hookeri (Scribn.) Romero Zarco
[= *Helictotrichon schellianum* (Hack.) Kitag.] [1–9, 13]
Helictotrichon desertorum (Less.) Pilg.
[= *Helictotrichon altaicum* Tzvelev] [3, 6, 7]
Helictotrichon mongolicum (Roshev.) Henrard
[≡ *Avenastrum mongolicum* (Roshev.) Roshev.] [1–3, 6, 7, 13]
Helictotrichon pubescens (Huds.) Pilg.
[= *Hordeum brevisubulatum* subsp. *turkestanicum* (Nevski) Tzvelev] [3, 4, 7, 9]
Hordeum bogdanii Wilensky [3, 7, 9, 10, 14–16]
Hordeum brevisubulatum Link
[= *Hordeum brevisubulatum* subsp. *turkestanicum* (Nevski) Tzvelev] [1–16]
Hordeum roshevitzii Bowden
[≡ *Critesion roshevitzii* (Bowden) Tzvelev] [1, 2, 4, 8–11, 13]
Koeleria altaica (Domin) Krylov [1–10, 13]
Koeleria asiatica Domin [2, 8]
Koeleria glauca DC. [4]
Koeleria litvinowii Domin [1, 3, 7, 13]
Koeleria macrantha (Ledeb.) Schult. [1–5, 8–13]
Koeleria spicata subsp. *mongolica* (Hultén) Barberá, Quintanar, Soreng, & P.M.Peterson [≡ *Trisetum spicatum* subsp. *mongolicum* Hultén] [1–4, 6, 7, 13]

- SE *Koeleria thonii* Domin [5]
Leymus angustus (Trin.) Pilg. [= *Elymus angustus* Trin.] [3, 6, 7, 10–14, 16]
Leymus chinensis (Trin.) Tzvelev [1–6, 8–14]
- SE *Leymus ordensis* Peschkova [15]
Leymus paboanus (Claus) Pilg. [3, 6–8, 10–14]
Leymus racemosus (Lam.) Tzvelev [3, 5, 6, 8–13]
Leymus ramosus (K.Richt.) Tzvelev [= *Agropyron ramosum* K.Richt.] [5, 9]
Leymus secalinus (Georgi) Tzvelev [= *Leymus secalinus* var. *mongolicus* (Meld.) Tzvelev = *Leymus ovatus* (Trin.) Tzvelev] [1–4, 6–16]
Melica nutans L. [1, 2, 4]
Melica transsilvanica Schur [7]
Melica turczaninowiana Ohwi [2, 3, 4, 5, 9]
Melica virgata Turcz. [1–5, 8–10, 12, 13]
Milium effusum L. [2]
Nardus stricta L. [3]
Neotrinia splendens (Trin.) M.Nobis
 [= *Achnatherum splendens* (Trin.) Nevski ≡ *Stipa splendens* Trin.] [2–5, 7–16]
Phalaris arundinacea L. [1–5, 7, 9, 10, 14]
Phleum alpinum L. [7]
Phleum phleoides (L.) H.Karst. [2–4, 6–8, 10]
Phragmites australis (Cav.) Steud. [1–16]
Piptatherum songaricum (Trin. & Rupr.) Roshev. [7, 14]
Poa alpina L. [1, 3, 6, 7, 15]
Poa alta Hitchc. [= *Poa mongolica* (Rendle) Keng] [2, 5]
Poa altaica Trin. [= *Poa glauca* subsp. *altaica* (Trin.) Olonova & G.H.Zhu] [1–3, 6, 7, 10, 13]
Poa angustifolia L. [= *Poa pratensis* subsp. *angustifolia* (L.) Dumort.] [2, 3, 4, 5, 9]
Poa annua L. [= *Ochlopoa annua* (L.) H.Scholz] [2, 7, 9]
Poa argunensis Roshev. [1–11, 13, 15]
Poa attenuata Trin. subsp. *attenuata* . [1–4, 6–10, 12–14]
Poa attenuata subsp. *botryoides* (Trin.) Tzvelev [1, 3–9, 13]
Poa attenuata subsp. *dahurica* (Trin.) Gubanov [= *Poa dahurica* Trin.] [1–4, 7–13]
Poa attenuata subsp. *tshuensis* (Serg.) Olonova
 [= *Poa argunensis* f. *tshuensis* Serg.] [1–4, 6–10, 12–15]
Poa glauca Vahl [1, 3, 6, 7, 13]
Poa ircutica Roshev. [4]
SE *Poa kenteica* Ivanova [2, 3]
Poa krylovii Reverd. [= *Poa urssulensis* subsp. *krylovii* (Reverd.) Olonova] [2, 3, 4, 7, 8]
Poa nemoralis L. [1–5, 8, 9]

- Poa palustris* L. [1–5, 7, 8, 9, 13]
Poa pratensis L. [= *Poa pratensis* subsp. *sabulosa* (Turcz.) Tzvelev] [1–10, 13, 14]
Poa raduliformis Prob. [2, 7]
Poa sibirica Roshevitz [1–7, 10, 13]
Poa smirnowii Roshev. [1, 3, 4, 6, 7]
Poa subfastigiata Trin. [1–6, 8–10, 13]
Poa supina Schrad. [3, 4, 7]
Poa tianschanica Hack. [1–10, 13]
Poa trivialis L. [1]
Poa urssulensis Trin. [2, 3, 5]
Poa vereschaginii Tzvelev [7]
Poa versicolor subsp. *reverdattoi* (Roshev.) Olonova & G.H.Zhu
 [= *Poa reverdattoi* Roshev.] [1, 3, 5–10, 13, 14]
Poa versicolor Besser subsp. *versicolor*
 [= *Poa versicolor* subsp. *stepposa* (Krylov) Tzvelev] [1–9, 11, 13]
Polypogon maritimus Willd. [11, 15]
Polypogon monspeliensis (L.) Desf. [7, 10, 11, 13, 15, 16]
 SE *Psammochloa villosa* (Trin.) Bor [3, 9–13, 16]
Psathyrostachys juncea (Fisch.) Nevski [3, 6, 7, 10, 12–15]
Psathyrostachys lanuginosus (Trin.) Nevski [7, 14]
Ptilagrostis mongholica (Turcz.) Griseb. [= *Stipa mongholica* Turcz.]
 [1, 2, 3, 4, 7]
Puccinellia altaica Tzvelev [14]
Puccinellia distans (Jacq.) Parl. [11, 13, 14]
 SE *Puccinellia filifolia* (Trin.) Tzvelev [8, 12]
Puccinellia hackeliana (V.I.Krecz.) V.I.Krecz. [7]
Puccinellia hauptiana (V.I.Krecz.) Kitag. [3–11, 13, 14]
Puccinellia macranthera V.I.Krecz. [2–5, 7–10, 12, 14]
Puccinellia manchuriensis Ohwi [3]
Puccinellia nudiflora (Hack.) Tzvelev [7, 13]
 SE *Puccinellia przewalskii* Tzvelev [10]
Puccinellia schischkinii Tzvelev [5, 8, 10, 12, 13, 15]
Puccinellia tenuiflora Scribn. & Merr. [= *Puccinellia kreczetoviczii* Bubnova]
 [1–16]
Schismus arabicus Nees [4, 7, 11, 14]
Schizachne purpurascens subsp. *callosa* (Turcz.) T.Koyama & Kawano
 [2, 3, 4, 5]
Scolochloa festucea Link [4]
Sibirotrisetum sibiricum (Rupr.) Barberá [= *Trisetum sibiricum* Rupr.]
 [1–5, 7–10, 13]
Spodiopogon sibiricus Trin. [2, 3, 4, 5, 8, 9]
Sporobolus aculeatus (L.) P.M.Peterson [= *Crypsis aculeata* (L.) Aiton] [10–13, 15]
Sporobolus schoenoides (L.) P.M.Peterson [= *Crypsis schoenoides* Lam.] [3, 10, 14]

- E *Stipa austromongolica* M.Nobis [10]
Stipa baicalensis Roshev. [1–5, 7, 8, 9, 12]
Stipa breviflora Griseb. [7, 8, 9, 12, 13]
Stipa capillata L. [3, 4, 7, 10, 12]
Stipa caucasica Schmalh. subsp. *caucasica* [7, 10–14, 16]
Stipa caucasica subsp. *desertorum* (Roshev.) Tzvelev [10]
Stipa consanguinea Trin. & Rupr. [2, 7, 10]
Stipa glareosa f. *pubescens* P.A.Smirn. [4–12]
Stipa glareosa P.A.Smirn. [= *Stipa caucasica* subsp. *glareosa* (P.A.Smirn.) Tzvelev] [3, 6–16]
Stipa gobica Roshev. [3, 4, 6–16]
Stipa grandis P.A.Smirn. [3, 4, 5, 8, 9]
E *Stipa khovdensis* L.Q.Zhao [3, 6]
Stipa kirghisorum P.A.Smirn. [3, 7, 10, 14]
Stipa klemenzi Roshev. [3, 4, 6, 8, 9–13]
Stipa krylovii Roshev. [1–14]
Stipa mongolorum Tzvelev [7, 8, 10, 11, 12]
Stipa orientalis Trin. [1, 3, 6, 7, 10, 11, 14]
Stipa pennata L. subsp. *pennata* [3, 4]
Stipa pennata subsp. *sabulosa* (Pacz.) Tzvelev [10]
Stipa sareptana A. Beck. [3, 7, 10, 11, 13]
Stipa sczerbakovii Kotuch. [7]
Stipa tianschanica Roshev. [= *Stipa tianschanica* subsp. *gobica* (Roshev.) D.F.
Cui = *Stipa tianschanica* var. *klemenzi* (Roshev.) Norl.] [3, 4, 6–16]
Stipa zalesskii Wilensky [3, 7, 10]
Timouria saposhnikowii Roshev. [= *Stipa saposhnikowii* (Roshev.) Kitag.] [13, 15]
Tragus mongolorum Ohwi [12, 13]
Tripogon chinensis Hack. [2, 4, 5, 8, 9, 12]
Tripogon purpurascens Duthie [12, 13, 16]
Trisetum altaicum Roshev. [1, 2, 3, 6, 7]
Zizania latifolia Turcz. [9]

87. Polemoniaceae Juss. (2 genera and 4 species)

- Phlox sibirica* L. [1, 4]
Polemonium boreale Adams [1, 3, 6]
Polemonium chinense Brand [1–7, 9]
Polemonium pulchellum Bunge [1, 3, 6]

88. Polygalaceae Hoffmanns. & Link (1 genus and 3 species)

- Polygala comosa* Schkuhr [= *Polygala hybrida* DC.] [1–4, 6, 7, 14]
Polygala sibirica L. [1, 2, 3, 4, 5, 9]
Polygala tenuifolia Willd. [1–5, 8, 9, 12, 13]

89. Polygonaceae Juss. (11 genera and 63 taxa)

	<i>Atraphaxis bracteata</i> Losinsk.	[3, 6, 7, 9, 10–16]
	<i>Atraphaxis compacta</i> Ledeb.	[13, 14, 15]
	<i>Atraphaxis frutescens</i> (L.) K.Koch	[3, 5, 6, 7, 9–16]
E	<i>Atraphaxis kamelinii</i> Yurtseva	[14]
	<i>Atraphaxis pungens</i> Jaub. & Spach	[2–16]
	<i>Atraphaxis spinosa</i> L.	[14, 15]
	<i>Atraphaxis virgata</i> (Regel) Krassn.	[7, 10, 12, 14,–16]
	<i>Bistorta elliptica</i> (Willd.) V.V.Petrovsky	[1, 2, 3, 6, 7]
SE	<i>Calligonum ebinuricum</i> Ivanova	[14, 15]
	<i>Calligonum junceum</i> (Fisch. & C.A.Mey.) Litv.	[14, 15]
	<i>Calligonum litwinowi</i> Drobow [= <i>Calligonum gobicum</i> Losinsk.]	[14, 15]
	<i>Calligonum mongolicum</i> Turcz.	[7, 10–16]
	<i>Fallopia convolvulus</i> (L.) Á.Löve [≡ <i>Polygonum convolvulus</i> L.]	[2 – 5 , 8–10, 12, 15]
	<i>Fallopia dumetorum</i> (L.) Holub	[5]
	<i>Knorringia sibirica</i> (Laxm.) Tzvelev subsp. <i>sibirica</i>	[1–16]
	<i>Knorringia sibirica</i> subsp. <i>ubsunurica</i> Tzvelev	[10]
	<i>Koenigia islandica</i> L.	[1–3, 6, 7, 10, 13]
	<i>Oxyria digyna</i> Hill	[1, 2, 3, 6, 7, 13]
	<i>Persicaria alpina</i> Gross.	[1–4, 6, 7, 8, 14]
	<i>Persicaria amphibia</i> (L.) Delarbre	[1, 3–12, 14]
	<i>Persicaria bistorta</i> Samp.	[2]
	<i>Persicaria bungeana</i> Nakai	[1–3, 5, 7–10, 13]
	<i>Persicaria hydropiper</i> (L.) Delarbre [≡ <i>Polygonum hydropiper</i> L.]	[2 – 4 , 6–8, 10, 13, 14]
	<i>Persicaria lapathifolia</i> (L.) Delarbre [≡ <i>Polygonum ochreatum</i> L.]	[1–16]
	<i>Persicaria longiseta</i> var. <i>rotundata</i> (A.J.Li) B.Li [≡ <i>Polygonum longisetum</i> var. <i>rotundatum</i> A.J.Li]	[2, 4, 8]
	<i>Persicaria minor</i> (Huds.) Opiz	[10, 14]
	<i>Persicaria sagittata</i> (L.) H.Gross	[2, 3, 4, 5, 8, 9]
	<i>Persicaria vivipara</i> (L.) Ronse Decr.	[1–4, 6–8, 10, 13, 14]
	<i>Polygonum abbreviatum</i> Kom.	[1, 2, 7]
	<i>Polygonum alopecuroides</i> Turcz.	[1–6, 8]
	<i>Polygonum angustifolium</i> Pall.	[1–5, 7–9, 11, 13]
	<i>Polygonum arenastrum</i> Boreau	[1, 3, 7, 10, 14]
	<i>Polygonum argyrocoleon</i> Steud.	[7, 10, 11, 13–15]
	<i>Polygonum aviculare</i> L.	[1–5, 7–14, 16]
	<i>Polygonum cognatum</i> Meisn.	[3, 4, 6, 7, 8, 10]
	<i>Polygonum divaricatum</i> L.	[1–5, 8, 9]
	<i>Polygonum ellipticum</i> Willd.	[1, 2, 3, 6, 7]
	<i>Polygonum humifusum</i> C.Merck	[3]
	<i>Polygonum intramongolicum</i> Borodina	[12, 13]

	<i>Polygonum novoascanicum</i> Klovov	[14]
	<i>Polygonum patulum</i> M.Bieb.	[3, 7, 9, 10, 14, 15]
	<i>Polygonum polycnemoides</i> Jaub. & Spach	[7, 14]
	<i>Polygonum sericeum</i> Pall.	[2, 3, 4, 8, 9]
	<i>Polygonum tenuissimum</i> A.I.Baranov & Skvortsov	[9]
	<i>Polygonum valerii</i> A.K.Skvortsov	[2, 4, 5, 8]
	<i>Polygonum volchovense</i> Tzvelev	[7]
	<i>Rheum compactum</i> L.	[1–4, 6, 7, 12–14]
	<i>Rheum nanum</i> Siev.	[7, 8, 10–16]
	<i>Rheum rhabarbarum</i> L. [= <i>Rheum undulatum</i> L.]	[1–5, 7–9, 12–14]
SE	<i>Rheum uninerve</i> Maxim.	[13]
	<i>Rumex acetosa</i> L.	[1, 2, 3, 6, 7]
	<i>Rumex acetosella</i> L.	[1–5, 8, 9]
	<i>Rumex aquaticus</i> L.	[1–10, 14]
	<i>Rumex crispus</i> L.	[1, 7, 9, 10, 14]
	<i>Rumex gmelinii</i> Turcz.	[2, 3, 4, 5, 8, 9]
	<i>Rumex maritimus</i> L.	[2–5, 8–11, 14]
	<i>Rumex marschallianus</i> Rchb.	[6, 8, 9, 10, 11]
	<i>Rumex patientia</i> L.	[7, 9, 13, 14]
	<i>Rumex popovii</i> Pachom.	[10, 13]
	<i>Rumex pseudonatronatus</i> (Borbás) Murb.	[11, 13]
	<i>Rumex similans</i> Rech.f.	[2–4, 6, 7, 10–12, 14, 15]
	<i>Rumex stenophyllus</i> Ledeb.	[2–4, 6, 7, 9, 10, 14, 15]
	<i>Rumex thyrsiflorus</i> Fingerh.	[1–14]

90. **Potamogetonaceae** Bercht. & J.Presl (3 genera and 18 taxa)

	<i>Potamogeton angustifolius</i> Bercht. & J.Presl	[10]
	<i>Potamogeton alpinus</i> subsp. <i>tenuifolius</i> (Raf.) Hulten	[3, 4, 9, 10, 12]
	<i>Potamogeton berchtoldii</i> Fieber	[3, 6, 7, 9]
	<i>Potamogeton compressus</i> L.	[1, 8, 9, 10, 14]
	<i>Potamogeton crispus</i> L.	[1, 8, 10]
	<i>Potamogeton friesii</i> Rupr.	[5, 8, 9]
	<i>Potamogeton gramineus</i> L.	[1–10, 14]
	<i>Potamogeton lucens</i> L.	[1, 8, 10]
	<i>Potamogeton mandschuriensis</i> A.Benn.	[5]
	<i>Potamogeton natans</i> L.	[1, 5–7, 10, 11]
	<i>Potamogeton obtusifolius</i> Mert. & W.D.J.Koch	[1, 3, 5]
	<i>Potamogeton perfoliatus</i> L.	[1–12, 14, 16]
	<i>Potamogeton praelongus</i> F.Muell.	[1–5, 8, 9]
	<i>Potamogeton pusillus</i> L.	[1–6, 8–11, 13, 14]
	<i>Stuckenia filiformis</i> (Pers.) Börner [= <i>Potamogeton filiformis</i> Pers.]	[1, 3, 6–11, 13, 15]

- Stuckenia pectinata* (L.) Börner [= *Potamogeton pectinatus* L.] [1–10, 11]
Stuckenia vaginata Holub [1, 3–8, 10, 11, 13]
Zannichellia palustris L. [= *Zannichellia palustris* subsp.
pedicellata (Rosén & Wahlenb.) Hook.f.] [3, 4, 7–11, 15]

91. Primulaceae Batsch (3 genera and 28 taxa)

Note: The genus *Primula* L. was recently revised by Baasanmunkh et al. (2020a).

- Androsace fedtschenkoi* Ovcz. [1, 6, 7, 13]
Androsace filiformis Retz. [1, 2, 3, 4, 5, 9]
Androsace gmelinii Gaertn. [2, 3, 9, 11]
Androsace incana Lam. [1–9, 13]
Androsace lactiflora Fisch. [= *Androsace amurensis* Prob.] [1–4, 6, 7, 9, 14]
Androsace lehmanniana Spreng. [= *Androsace bungeana* Schischk. & Bobrov]
[1, 2, 3, 6, 7, 9]
Androsace longifolia Turcz. [5, 9]
Androsace maxima L. [2–4, 6–10, 13–15]
Androsace ovczinnikovii Schischk. & Bobrov [3, 6, 7]
Androsace septentrionalis L. [1–9, 12–14]
Androsace villosa L. var. *dasyphylla* (Bunge) Kar. & Kir.
[≡ *Androsace dasyphylla* Bunge] [1, 2, 3, 6, 7, 13]
Lysimachia davurica Ledeb. [2, 3, 4, 5, 9, 14]
Lysimachia europaea (L.) U.Manns & Anderb. [≡ *Trientalis europaea* L.]
[1, 2, 3, 4, 5]
Lysimachia maritima (L.) Galasso [≡ *Glaux maritima* L.] [1–16]
Lysimachia thyrsiflora L. [≡ *Naumburgia thyrsiflora* (L.) Rchb.] [2–5, 9,
10, 14]
Primula algida Adams [1–3, 6, 7, 11, 13]
Primula bukukunica Kovt. [7, 11, 13]
Primula cortusoides L. [3]
Primula farinosa L. [1–4, 6, 7, 10, 13, 15]
Primula longiscapa Ledeb. [3, 6, 7, 10, 13, 14]
Primula matthioli subsp. *altaica* (Losinsk.) Kovt. [≡ *Cortusa altaica* Losinsk.]
[1, 2, 3, 7, 13, 14]
Primula matthioli subsp. *brotheri* (Pax) Kovt. [≡ *Cortusa matthioli* f. *brotheri* Pax]
[7]
Primula maximowiczii Regel [5]
Primula nivalis subsp. *nivalis* Pall. [1, 2, 3, 6, 7, 10]
Primula nivalis subsp. *turkestanica* (J.N.Haage & E.Schmidt) Kovt. [1, 3]
Primula nivalis subsp. *xanthobasis* (Fed.) Halda [1, 2, 3]
Primula nutans Georgi [1–7, 9, 10, 11]
Primula serrata Georgi [1–5, 7–10, 13]

92. Ranunculaceae Juss. (20 genera and 156 taxa)

Note: In regards to the phylogeny and position of *Actea* and *Cimicifuga*, we follow Compton et al. (1998). *Anemone* is considered here according to Hoot (2012) with some changes leaving *Pulsatilla* at generic level (Sramkó et al. 2019). The taxonomy of the tribe Ranunculae is given according to Emadzade (2010) and Wang et al. (2014). The taxonomical positions of some taxa have been changed according to taxonomic works (Solovjev 1998; Erst 2007). Previously, four species of *Batrachium* were recorded in Mongolia which are treated as a synonym of *Ranunculus* by Wiegleb et al. (2017). Taxonomic revision of the genus *Aquilegia* L. was carried out by Erst et al. (2016).

- Aconitum ambiguum* Rchb. [1, 2, 3, 4, 10]
Aconitum anthoroideum DC. [3, 7]
Aconitum baicalense Turcz. [= *Aconitum ambiguum* Rchb. subsp. *baicalense* (Turcz.) Vorosch.] [2, 3, 4, 5, 9]
Aconitum barbatum Patr. [1–4, 6–8, 10, 11, 13]
Aconitum biflorum Fisch. [3, 7]
Aconitum coreanum (H.Lév.) Rapaics [5]
Aconitum decipiens Vorosch. & Anfalov [3, 7]
Aconitum glandulosum Rapaics [= *Aconitum altaicum* Steinb. = *Aconitum smirnovii* Steinb.] [1–4, 6, 7, 13, 14]
E *Aconitum gubanovii* Luferov & Vorosch. [7, 14]
E *Aconitum kamelinii* A.A.Solovjev [= *Aconitum chasmanthum* Stapf] [3, 13]
SE *Aconitum khanminthunii* A.A.Solovjev & Shmakov [3, 6, 7, 11, 13]
Aconitum kusnezoffii Rchb. [= *Aconitum birobidshanicum* Vorosch.] [5, 9]
Aconitum leucostomum Vorosch. [6, 7, 8, 10]
Aconitum macrorhynchum Turcz. [4]
SE *Aconitum paskoi* Vorosch. [2, 3]
Aconitum ranunculoides Turcz. [4]
SE *Aconitum rubicundum* (Ser.) Fisch. [= *Aconitum septentrionale* subsp. *rubicundum* (Ser.) Vorosch.] [1]
Aconitum septentrionale Koelle [1–4, 6, 7, 8]
SE *Aconitum turczaninowii* Vorosch. [2, 3, 4, 5, 9]
Aconitum volubile Koelle [2, 3, 7]
Actaea cimicifuga L. [= *Cimicifuga foetida* L.] [1, 2, 3, 4]
Actaea dahurica (Turcz.) Franch. [= *Cimicifuga dahurica* (Turcz.) Maxim.] [2, 5, 9]
Actaea erythrocarpa (Fisch.) Kom. [1, 2, 3, 4]
Actaea simplex Prantl [5]
Adonis apennina L. [= *Adonis sibirica* Patrin] [1, 2, 3, 4, 6, 8]
E *Adonis mongolica* Simonovich [1, 2, 3, 4, 8]
Anemonastrum crinitum (Juz.) Holub [= *Anemone narcissiflora* subsp. *crinita* (Juz.) Kitag.] [1, 2, 3, 4, 6, 7]
Anemonastrum dichotomum (L.) Mosyakin [= *Anemone dichotoma* L.] [2, 3, 4, 5, 9]

	<i>Anemonastrum obtusilobum</i> (D.Don) Mosyakin [= <i>Anemone obtusiloba</i> Lindl.]	[3]
	<i>Anemonastrum sibiricum</i> (L.) Holub [= <i>Anemone sibirica</i> L.]	[1, 2, 4]
	<i>Anemone reflexa</i> Steph.	[2, 3, 4]
	<i>Anemone sylvestris</i> L. [= <i>Anemonoides sylvestris</i> (L.) Galasso]	[1–7, 9]
	<i>Aquilegia amurensis</i> Kom.	[2]
	<i>Aquilegia aradanica</i> Shaulo & Erst	[4]
E	<i>Aquilegia daingolica</i> Erst & Shaulo	[7]
	<i>Aquilegia ganboldii</i> Kamelin & Gubanov	[5]
	<i>Aquilegia glandulosa</i> Fisch.	[1, 4, 6, 7]
E	<i>Aquilegia grubovii</i> Erst	[1, 2, 3, 4]
	<i>Aquilegia jucunda</i> Fisch. & Lallem.	[1]
	<i>Aquilegia sibirica</i> Lam.	[1, 2, 3, 4, 6, 7]
	<i>Aquilegia viridiflora</i> Pall.	[2–5, 7–10, 12, 13]
	<i>Aquilegia xinjiangensis</i> Erst	[7]
	<i>Callianthemum angustifolium</i> Witasek	[7]
	<i>Callianthemum isopyroides</i> Witasek	[1, 2, 3]
	<i>Callianthemum sajanense</i> Witasek	[1, 3, 7]
	<i>Caltha membranacea</i> (Turcz.) Schipcz.	[5]
	<i>Caltha natans</i> (Pall.) Deyl & Sojak	[1–5, 8, 10, 11]
	<i>Caltha palustris</i> L.	[1–5, 9–11]
	<i>Ceratocephala testiculata</i> (Crantz) Besser	[7]
	<i>Clematis aethusifolia</i> Turcz.	[9]
	<i>Clematis brevicaudata</i> DC.	[5, 9]
SE	<i>Clematis fruticosa</i> Turcz.	[11–13, 15, 16]
	<i>Clematis glauca</i> Willd.	[3, 7, 10, 14, 15]
	<i>Clematis hexapetala</i> Pall.	[2, 4, 5, 8, 9]
	<i>Clematis intricata</i> Bunge	[7–14, 16]
	<i>Clematis macropetala</i> Ledeb.	[9]
	<i>Clematis ochotensis</i> (Pall.) Poir. & Lam.	[4]
	<i>Clematis orientalis</i> L.	[15]
	<i>Clematis sibirica</i> (L.) Mill.	[1–4, 6–8, 10, 13]
	<i>Clematis songarica</i> Siev.	[7, 11–16]
SE	<i>Clematis tangutica</i> subsp. <i>mongolica</i> Grey-Wilson	[2]
	<i>Clematis tangutica</i> Korsh. subsp. <i>tangutica</i>	[2–4, 7, 8, 10, 13–15]
	<i>Delphinium altaicum</i> Nevski	[6, 7, 13, 14]
	<i>Delphinium barlykense</i> Lomon. & Khanm.	[1, 6, 7]
E	<i>Delphinium changaicum</i> N.Friesen	[3, 13]
	<i>Delphinium cheilanthum</i> Fisch.	[1–4, 6, 7, 8, 13]
	<i>Delphinium crassifolium</i> Schrad.	[1, 2, 3, 5, 6, 7]
	<i>Delphinium dictyocarpum</i> DC.	[7]
SE	<i>Delphinium dissectum</i> Huth	[1, 3, 4, 8]
	<i>Delphinium elatum</i> L.	[1, 3, 6, 7]

	<i>Delphinium grandiflorum</i> L.	[1–5, 9, 13]
E	<i>Delphinium gubanovii</i> N.Friesen	[7]
	<i>Delphinium iliense</i> Huth	[14]
	<i>Delphinium inconspicuum</i> Serg. subsp. <i>inconspicuum</i>	[3, 6, 7, 14]
E	<i>Delphinium inconspicuum</i> subsp. <i>mongolicum</i> A.L.Ebel	[7]
SE	<i>Delphinium malyshevii</i> N.Friesen	[1]
	<i>Delphinium mirabile</i> Serg.	[6, 7]
SE	<i>Delphinium sajanense</i> Jurtzev	[1]
	<i>Delphinium triste</i> Fisch.	[1, 2, 3, 4, 8, 13]
	<i>Delphinium ukokense</i> Serg.	[6, 7]
	<i>Halerpestes salsuginosa</i> Greene	[1–4, 6–15]
	<i>Halerpestes sarmentosa</i> (Adams) Kom. & Klob.-Alis	[3, 4, 6–16]
	<i>Isopyrum anemonoides</i> Kar. & Kir.	[7]
	<i>Leptopyrum fumarioides</i> Rchb.	[1–4, 6–9, 13]
	<i>Oxygraphis glacialis</i> (Fisch.) Bunge	[1, 2, 3, 6, 7, 13]
	<i>Paraquilegia anemonoides</i> Ulbr.	[1, 6, 7]
	<i>Pulsatilla ambigua</i> Turcz.	[1–4, 6, 7, 13]
SE	<i>Pulsatilla bungeana</i> C.A.Mey. [= <i>Pulsatilla bungeana</i> var. <i>astragalifolia</i> (Pobed.) Grubov]	[1–11, 13]
	<i>Pulsatilla campanella</i> Fisch.	[1, 3, 6, 7, 14]
	<i>Pulsatilla dahurica</i> (Fisch.) Spreng.	[3, 9]
	<i>Pulsatilla multifida</i> (G.Pritz.) Juz. [= <i>Pulsatilla patens</i> subsp. <i>multifida</i> (G.Pritz.) Zämelis]	[3, 4, 6, 7]
	<i>Pulsatilla patens</i> (L.) Mill. subsp. <i>flavescens</i> (Zucc.) Zämelis [= <i>Pulsatilla flavescens</i> (Zucc.) Juz.]	[1, 2, 3, 4, 5, 7]
	<i>Pulsatilla tenuiloba</i> (Hayek) Juz.	[2, 3, 4, 9]
	<i>Pulsatilla turczaninovii</i> Krylov & Serg.	[1–6, 8, 9]
	<i>Ranunculus acris</i> L.	[1–5, 7, 8, 9, 10]
	<i>Ranunculus altaicus</i> Laxm.	[1, 2, 3, 6, 7]
	<i>Ranunculus aquatilis</i> L.	[3, 5, 9]
E	<i>Ranunculus arschantynicus</i> Kamelin, Shmakov & S.V.Smirn.	[7, 14]
	<i>Ranunculus chinensis</i> Bunge	[2, 3, 4, 6, 10]
	<i>Ranunculus circinatus</i> Sibth.	[3, 4, 5, 9, 10]
	<i>Ranunculus confervoides</i> (Fr.) Fr. [= <i>Ranunculus trichophyllus</i> subsp. <i>eradicatus</i> (Laest.) C.D.K.Cook]	[2, 5–10]
	<i>Ranunculus gmelinii</i> DC.	[1, 2, 4, 5, 9]
	<i>Ranunculus gobicus</i> Maxim.	[13]
	<i>Ranunculus grandifolius</i> C.A.Mey.	[3]
	<i>Ranunculus kauffmannii</i> Clerc [= <i>Batrachium kauffmannii</i> (Clerc) Krecz.]	[2, 7]
	<i>Ranunculus lapponicus</i> L.	[1, 2, 3, 6, 7, 13]
SE	<i>Ranunculus lasiocarpus</i> C.A.Mey.	[1, 3, 6, 7]
	<i>Ranunculus lingua</i> L.	[14]

- Ranunculus longicaulis* C.A.Mey. [1–3, 6, 7, 11, 14]
Ranunculus mongolicus (Krylov) Serg. [= *Batrachium mongolicum* Serg.] [3, 6, 7, 10, 11]
Ranunculus monophyllus Ovcz. [1–7]
Ranunculus natans C.A.Mey. [1–4, 6–10, 13, 15]
Ranunculus pedatifidus Sm. [= *Ranunculus rigescens* Turcz.] [1–7, 9, 13, 14]
Ranunculus polyanthemos L. [6]
Ranunculus propinquus C.A.Mey. subsp. *propinquus* [1–4, 6–8, 10]
Ranunculus propinquus var. *subborealis* (Tzvel.) Luferov [1, 2, 3, 4]
Ranunculus pseudohirculus Schrenk [1–3, 6, 7, 13, 14]
SE *Ranunculus pseudomonophyllus* Timokhina [1, 2]
Ranunculus pulchellus C.A.Mey. [1–4, 6–10, 13]
Ranunculus radicans C.A.Mey. [1–8, 10, 13]
Ranunculus repens L. [2–9]
Ranunculus reptans L. [1, 2, 4, 7, 10]
E *Ranunculus sapozhnikovii* Schegol. [7]
Ranunculus sceleratus L. [1–9, 11, 13, 14]
SE *Ranunculus schmakovii* Erst [7]
Ranunculus smirnovii Ovcz. [2]
Ranunculus sulphureus subsp. *exaltatus* Erst [7]
Ranunculus tanguticus (Maxim) Ovcz. [3, 6]
Ranunculus trautvetterianus Regel [7]
Ranunculus trichophyllus Chaix [= *Batrachium trichophyllum* (Chaix) Bosch
= *Batrachium divaricatum* (Schränk) Schur] [1–11, 14]
SE *Ranunculus turczaninonii* (Luferov) Vorosch. [2]
SE *Ranunculus tuvinicus* Erst [7]
Thalictrum alpinum L. [1–4, 6, 7, 13]
Thalictrum baicalense Turcz. [2, 5]
Thalictrum contortum L. [= *Thalictrum aquilegiifolium* var. *sibiricum*
Regel & Tiling] [5, 9]
Thalictrum foetidum L. [1–4, 6–10, 13, 14]
Thalictrum isopyroides C.A.Mey. [7, 14]
SE *Thalictrum minus* subsp. *appendiculatum* (C.A.Mey.) Gubanov [= *Thalictrum
appendiculatum* C.A.Mey.] [3]
Thalictrum minus subsp. *elatum* (Jacq.) Stoj. & Stef.
[= *Thalictrum minus* subsp. *kemense* (Fries) Cajander] [3]
Thalictrum minus L. subsp. *minus* [1–10, 13, 14]
Thalictrum petaloideum L. [1, 2, 3, 4, 5, 9]
SE *Thalictrum schischkinii* N.Friesen [= *Thalictrum altaicum* (Schischk.) Serg.] [7]
Thalictrum simplex L. [1–10, 13, 14]
Thalictrum squarrosum Steph. [2, 3, 4, 5, 8, 9]
Trollius altaicus C.A.Mey. [6, 7, 14]
Trollius asiaticus L. [1–4, 6, 7, 9, 13]

	<i>Trollius austrosibiricus</i> Erst & Luferov	[7]
	<i>Trollius chinensis</i> Bunge	[7]
	<i>Trollius dschungaricus</i> Regel	[14]
	<i>Trollius ledebourii</i> Rchb.	[2, 3, 4, 5, 9]
	<i>Trollius lilacinus</i> Bunge	[1, 2, 6, 7]
	<i>Trollius sajanensis</i> (Malyshev) Sipliv.	[1]
	<i>Trollius sibiricus</i> Schipcz.	[5]
	<i>Trollius vicarius</i> Sipliv.	[5]
93. Rhamnaceae Juss. (1 genus and 5 species)		
	<i>Rhamnus davurica</i> Pall.	[2, 4]
	<i>Rhamnus erythroxylon</i> Pall.	[2–4, 8, 9, 12, 13]
	<i>Rhamnus maximovicziana</i> J.J.Vassil.	[13, 16]
	<i>Rhamnus parvifolia</i> Bunge	[2, 4, 5, 9]
	<i>Rhamnus utilis</i> Decne.	[4, 5, 9]
94. Rosaceae Juss. (28 genera and 168 taxa)		
	<i>Agrimonia pilosa</i> Ledeb.	[1–6, 9]
	<i>Alchemilla argutiserrata</i> H.Lindb.	[7]
E	<i>Alchemilla changaica</i> V.N.Tikhom.	[1, 3]
	<i>Alchemilla circularis</i> Juz.	[7]
	<i>Alchemilla cyrtopleura</i> Juz.	[3, 7]
	<i>Alchemilla flavescens</i> Buser	[3]
	<i>Alchemilla gracilis</i> Pax	[3]
	<i>Alchemilla gubanovii</i> V.N.Tikhom.	[2, 3]
	<i>Alchemilla hebescens</i> Juz.	[2, 3, 7]
	<i>Alchemilla krylovii</i> Juz.	[7]
	<i>Alchemilla murbeckiana</i> Buser	[7]
SE	<i>Alchemilla pavlovii</i> Juz.	[2, 3, 6]
	<i>Argentina anserina</i> (L.) Rydb. [≡ <i>Potentilla anserina</i> L.]	[1–11, 13–15]
	<i>Aruncus sylvestris</i> Kostel.	[5]
	<i>Chamaerhodos altaica</i> Bunge	[1–4, 6–8, 10, 11, 13]
SE	<i>Chamaerhodos corymbosa</i> Murav.	[5, 9]
	<i>Chamaerhodos erecta</i> (L.) Bunge	[1–13]
	<i>Chamaerhodos grandiflora</i> Ledeb.	[5]
	<i>Chamaerhodos sabulosa</i> Bunge	[3, 6–16]
	<i>Chamaerhodos trifida</i> Ledeb.	[4, 5, 8, 9, 12, 13]
	<i>Coluria geoides</i> (Pall.) Ledeb. [≡ <i>Dryas geoides</i> Pall.]	[3, 6]
	<i>Comarum palustre</i> L.	[1, 2, 3, 4, 6]
	<i>Cotoneaster megalocarpus</i> Popov	[7]
	<i>Cotoneaster melanocarpus</i> Lodd.	[1–10, 13, 14]
	<i>Cotoneaster mongolicus</i> Pojark.	[2–5, 7–9, 12, 13]
	<i>Cotoneaster neopopovii</i> Czerep.	[4]

	<i>Cotoneaster uniflorus</i> Bunge	[1, 2, 3, 7, 8, 13]
	<i>Crataegus dahurica</i> Koehne	[2, 4, 5, 9]
	<i>Crataegus maximowiczii</i> C.K.Schneid.	[5]
	<i>Crataegus sanguinea</i> Pall.	[2, 3, 4, 5, 9]
	<i>Dasiphora fruticosa</i> (L.) Rydb. [= <i>Potentilla fruticosa</i> L.]	[1–9, 11, 13]
	<i>Dasiphora parvifolia</i> (Fisch.) Juz. [= <i>Potentilla parvifolia</i> Fisch.]	[2, 3, 4, 6, 8]
	<i>Dryas grandis</i> Juz.	[1, 7]
	<i>Dryas incisa</i> Juz.	[1]
	<i>Dryas oxyodonta</i> Juz.	[1, 2, 3, 4, 6, 7]
	<i>Dryas punctata</i> Juz.	[1, 3]
SE	<i>Dryas sumnevicii</i> Serg.	[1]
	<i>Farinopsis salesoviana</i> (Steph.) Chrtek & Soják [≡ <i>Comarum salesovianum</i> (Steph.) Ledeb]	[6, 7, 10, 11, 13, 14]
	<i>Filipendula angustiloba</i> Maxim.	[5, 9]
	<i>Filipendula palmata</i> Maxim.	[2, 3, 4, 5, 9]
	<i>Filipendula ulmaria</i> (L.) Maxim.	[2, 3, 4]
	<i>Fragaria orientalis</i> Losinsk.	[2, 3, 4, 5]
	<i>Fragaria viridis</i> Weston	[2]
	<i>Geum aleppicum</i> Jacq.	[2, 3, 4, 5, 9]
	<i>Geum rivale</i> L.	[7]
	<i>Malus baccata</i> (L.) Borkh.	[2, 3, 4, 5, 8, 9]
SE	<i>Potaninia mongolica</i> Maxim.	[11, 12, 13, 16]
	<i>Potentilla acaulis</i> L.	[1–11, 13]
	<i>Potentilla acervata</i> Soják [= <i>Potentilla chenteica</i> Soják]	[2–5, 8, 9, 13]
	<i>Potentilla agrimonioides</i> M.Bieb. [= <i>Potentilla lydiae</i> Kurbatski]	[7, 14]
	<i>Potentilla altaica</i> Bunge [= <i>Potentilla nivea</i> L. var. <i>pinnatifida</i> Lehm.]	[7]
	<i>Potentilla angustiloba</i> T.T.Yu & C.L.Li	[7, 14]
	<i>Potentilla aphanes</i> Soják	[3, 6, 7, 10, 13, 14]
	<i>Potentilla arenosa</i> (Turcz.) Juz. [= <i>Potentilla nivea</i> var. <i>arenosa</i> Turcz.]	[2, 3, 4, 6]
	<i>Potentilla asiatica</i> (Th.Wolf) Juz.	[7]
	<i>Potentilla astragalifolia</i> Bunge	[3, 6, 7, 10, 11]
SE	<i>Potentilla</i> × <i>burjatica</i> Soják	[2]
	<i>Potentilla chalchorum</i> Soják	[2, 3, 7, 9]
SE	<i>Potentilla</i> × <i>chamaeleo</i> Soják	[6, 7, 14]
	<i>Potentilla chinensis</i> Ser.	[4, 5, 9]
	<i>Potentilla chionea</i> Soják	[1–4, 10, 13, 14]
	<i>Potentilla chrysantha</i> Trevir.	[7, 14]
	<i>Potentilla conferta</i> Bunge	[1–9, 12, 13, 14]
E	<i>Potentilla coriacea</i> Soják	[3]
	<i>Potentilla crantzii</i> (Crantz) Fritsch	[7]
	<i>Potentilla crebridens</i> Juz. [= <i>Potentilla nivea</i> var. <i>elongata</i> Th.Wolf]	[1, 2, 3, 10]
	<i>Potentilla desertorum</i> Bunge	[1, 6, 7, 9, 12–14]

SE	<i>Potentilla</i> × <i>drymeja</i> Soják	[2, 3, 13]
E	<i>Potentilla ekaterinae</i> Kamelin ex Kechaykin	[13]
	<i>Potentilla elegans</i> Cham. & Schltdl.	[1]
	<i>Potentilla elegantissima</i> Polozhij	[3]
	<i>Potentilla evestita</i> Th.Wolf	[1–4, 6, 7, 13, 14]
	<i>Potentilla exuta</i> Soják	[3, 7, 13, 14]
	<i>Potentilla flagellaris</i> D.F.K.Schltdl.	[2, 3, 4, 5, 9]
	<i>Potentilla fragarioides</i> L.	[2, 3, 4, 5, 7]
	<i>Potentilla gelida</i> C.A.Mey.	[1–3, 6, 7, 9, 13, 14]
E	<i>Potentilla gobica</i> Soják	[14]
SE	<i>Potentilla gracillima</i> Kamelin	[3, 7, 10]
E	<i>Potentilla hilbigii</i> Soják	[3]
E	<i>Potentilla hubsugulica</i> Soják	[1]
E	<i>Potentilla ikonnikovii</i> Juz.	[7, 13]
E	<i>Potentilla inopinata</i> Soják	[6, 7]
	<i>Potentilla jennisiejensis</i> Polozhij & W.Smirnova	
	[= <i>Potentilla agrimonoides</i> M.Bieb. var. <i>kobdoensis</i> Soják]	[6, 7, 10]
	<i>Potentilla kryloviana</i> Th.Wolf	[3, 7, 14]
E	<i>Potentilla laevipes</i> Soják	[7]
E	<i>Potentilla laevissima</i> Kamelin	[7]
	<i>Potentilla leucophylla</i> Pall. [= <i>Potentilla betonicifolia</i> Poir.]	[2, 3, 4, 5, 8, 9]
	<i>Potentilla longifolia</i> D.F.K.Schltdl.	[1–13]
E	<i>Potentilla mongolica</i> Krasch.	[3, 8]
	<i>Potentilla multicaulis</i> Bunge	[1, 3]
	<i>Potentilla multifida</i> L. [= <i>Potentilla tenella</i> Turcz.]	[1–14]
	<i>Potentilla nivea</i> L.	[1–4, 6, 7, 13, 14]
	<i>Potentilla norvegica</i> L. [= <i>Potentilla monspeliensis</i> L.]	[1, 2, 3, 4]
	<i>Potentilla nudicaulis</i> D.F.K.Schltdl. [= <i>Potentilla strigosa</i> Pall.]	[12]
SE	<i>Potentilla</i> × <i>olchonensis</i> Peschkova	[6]
	<i>Potentilla ornithopoda</i> Tausch	[1–4, 6, 7, 10, 14]
SE	<i>Potentilla ozjorensis</i> Peschkova	[1, 3, 4, 7]
	<i>Potentilla pamirica</i> Th.Wolf	[6, 7, 10, 14]
	<i>Potentilla pamiroalaica</i> Juz.	[14]
	<i>Potentilla pensylvanica</i> L. [≡ <i>Pentaphyllum pennsylvanicum</i> (L.) Lunell]	[1–11, 13, 14]
	<i>Potentilla regeliana</i> Th.Wolf	[6]
SE	<i>Potentilla</i> × <i>rhipidophylla</i> Soják	[3]
SE	<i>Potentilla rigidula</i> Th.Wolf	[6, 10]
	<i>Potentilla sanguisorba</i> D.F.K.Schltdl.	[1, 2, 3, 4, 12, 13]
E	<i>Potentilla schmakovii</i> Kechaykin	[7, 14]
SE	<i>Potentilla sergievskajae</i> Peschkova	[5, 8]
	<i>Potentilla sericea</i> L.	[1–4, 6–13, 15]
SE	<i>Potentilla serrata</i> Soják	[3]

SE	<i>Potentilla sischanensis</i> Bunge	[4, 9]
	<i>Potentilla songorica</i> Bunge	[10, 14]
SE	<i>Potentilla stepposa</i> Soják	[7, 10]
	<i>Potentilla subdigitata</i> T.T.Yu & C.L.Li	
	[= <i>Potentilla junatovii</i> Rudaya & A.L.Ebel]	[7]
	<i>Potentilla supina</i> L.	[1–12, 14–16]
	<i>Potentilla tanacetifolia</i> D.F.K.Schltdl.	[2–9, 12, 13]
	<i>Potentilla tergemina</i> Soják	[2, 3, 4, 5, 9]
SE	<i>Potentilla tericholica</i> Sobolevsk.	[6, 7]
	<i>Potentilla tetrandra</i> (Bunge) Hook.f. [≡ <i>Sibbaldia tetrandra</i> Bunge]	[1, 3, 6, 7]
	<i>Potentilla turczaninowiana</i> Stschegl.	[6, 7, 14]
	<i>Potentilla turkestanica</i> Soják	[7, 14]
E	<i>Potentilla tythantha</i> (Soják) Kechaykin	[6, 7]
E	<i>Potentilla</i> × <i>vanzhii</i> Gundegmaa & Kechaykin	[3]
	<i>Potentilla verticillaris</i> Stephan	[2, 3, 4, 5, 8, 9]
	<i>Potentilla virgata</i> Lehm.	[1, 3, 4, 6–15]
	<i>Prunus mongolica</i> Maxim. [≡ <i>Amygdalus mongolica</i> (Maxim.) Ricker]	[12, 13, 16]
	<i>Prunus padus</i> L.	[1, 2, 3, 4, 5, 9]
	<i>Prunus pedunculata</i> (Pall.) Maxim. [≡ <i>Amygdalus pedunculata</i> Pall.]	[2, 3, 4, 6–13, 16]
	<i>Prunus sibirica</i> L. [≡ <i>Armeniaca sibirica</i> (L.) Lam.]	[2, 3, 4, 5, 9]
	<i>Rosa acicularis</i> Lindl.	[1–9, 13]
	<i>Rosa albertii</i> Regel	[7]
E	<i>Rosa baitagensis</i> Kamelin & Gubanov	[14]
	<i>Rosa beggeriana</i> Schrenk	[14]
	<i>Rosa davurica</i> Pall.	[2, 4, 5, 9]
	<i>Rosa kokanica</i> (Regel) Regel	[7]
	<i>Rosa laxa</i> var. <i>kaschgarica</i> (Rupr.) Y.L.Han [= <i>Rosa kaschgarica</i> Rupr.]	[14, 15]
	<i>Rosa laxa</i> Lindl. var. <i>laxa</i>	[6, 7, 13, 14, 15]
	<i>Rosa oxyacantha</i> M.Bieb.	[1, 2, 3, 7]
	<i>Rosa platyacantha</i> Schrenk	[14]
	<i>Rosa spinosissima</i> L.	[3, 7, 14]
	<i>Rosa xanthina</i> Lindl.	[9]
	<i>Rubus arcticus</i> L.	[1, 2, 3, 4]
	<i>Rubus chamaemorus</i> L.	[2]
	<i>Rubus humilifolius</i> C.A.Mey.	[1, 2]
	<i>Rubus sachalinensis</i> H.Lév.	[1, 2, 3, 4, 7, 8]
	<i>Rubus saxatilis</i> L.	[1, 2, 3, 4, 5, 9]
	<i>Sanguisorba alpina</i> Bunge	[3, 6, 7]
	<i>Sanguisorba officinalis</i> L.	[1–11]
	<i>Sanguisorba parviflora</i> (Maxim.) Takeda	[9]
	<i>Sanguisorba tenuifolia</i> Fisch.	[4, 9]
	<i>Sibbaldia procumbens</i> L.	[2, 7]

	<i>Sibbaldianthe adpressa</i> (Bunge) Juz. [= <i>Sibbaldia adpressa</i> Bunge]	[1–13, 15, 16]
	<i>Sibbaldianthe bifurca</i> (L.) Kurtto & T.Erikss. [= <i>Potentilla bifurca</i> L.]	[1–14]
	<i>Sibbaldianthe imbricata</i> (Kar. & Kir.) Mosyakin & Shiyan	
	[= <i>Potentilla imbricata</i> Kar. & Kir.]	[6, 7, 10, 14]
	<i>Sibbaldianthe orientalis</i> (Soják) Mosyakin & Shiyan	
	[= <i>Potentilla bifurca</i> var. <i>major</i> Ledeb.]	[7, 8, 9, 14]
	<i>Sibbaldianthe semiglabra</i> (Soják) Mosyakin & Shiyan	
	[= <i>Potentilla semiglabra</i> Juz.]	[5, 9]
SE	<i>Sibbaldianthe sericea</i> Grubov	[7, 8, 12, 13]
	<i>Sibiraea laevigata</i> (L.) Maxim.	[7]
	<i>Sorbaria sorbifolia</i> (L.) A.Braun	[4, 5]
	<i>Sorbus aucuparia</i> L. subsp. <i>glabrata</i> (Wimm. & Grab.) Hedl.	
	[= <i>Sorbus sibirica</i> Hedl.]	[1, 2, 3, 4, 5]
	<i>Spiraea alpina</i> Pall.	[1, 2, 3, 6, 7]
	<i>Spiraea aquilegiifolia</i> Pall.	[1–5, 8, 9, 12, 13]
	<i>Spiraea chamaedryfolia</i> L.	[5]
	<i>Spiraea dahurica</i> (Rupr.) Maxim.	[2, 4]
	<i>Spiraea elegans</i> Pojark.	[4]
	<i>Spiraea flexuosa</i> Fisch.	[1–6, 8, 9, 13]
	<i>Spiraea hypericifolia</i> L.	[2–4, 6, 7, 9, 10, 12, 14]
	<i>Spiraea media</i> F.Schmidt subsp. <i>media</i> [= <i>Spiraea sericea</i> Turcz.]	[1 – 8 , 13]
	<i>Spiraea pubescens</i> Turcz.	[4, 5, 9]
	<i>Spiraea salicifolia</i> L.	[2, 3, 4, 5, 9]

95. Rubiaceae Juss. (3 genera and 13 taxa)

E	<i>Asperula gobicola</i> Grubov [= <i>Asperula saxicola</i> Grubov]	[13, 16]
	<i>Galium amblyophyllum</i> Schrenk	[1, 2, 14]
	<i>Galium boreale</i> L.	[1–10, 13, 14]
	<i>Galium dahuricum</i> Turcz.	[2]
	<i>Galium densiflorum</i> Ledeb.	[3, 6, 7, 14]
	<i>Galium humifusum</i> M.Bieb.	[3, 7, 13]
	<i>Galium songaricum</i> Schrenk	[1, 2, 3]
	<i>Galium spurium</i> L.	[1–8, 10, 13, 14]
	<i>Galium trifidum</i> L.	[2–5, 7, 10, 14]
	<i>Galium uliginosum</i> L.	[1, 2, 3, 4, 10]
	<i>Galium verum</i> L. subsp. <i>verum</i> [= <i>Galium densiflorum</i> Ledeb.]	[1–10, 13, 14]
	<i>Galium verum</i> subsp. <i>wirtgenii</i> (F.W.Schultz) Oborny	[7]
	<i>Rubia cordifolia</i> L. [= <i>Galium cordifolium</i> (L.) Kuntze]	[2–5, 8, 9, 12, 13]

96. Ruppiaceae Horan. (1 genus and 1 species)

	<i>Ruppia maritima</i> L.	[10]
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97. Rutaceae Juss. (2 genera and 2 species)

- Haplophyllum dauricum* (L.) G.Don [2–6, 8, 9, 11–14, 16]
Dictamnus albus L. [5, 9]

98. Salicaceae Mirb. (2 genera and 47 species)

- Populus euphratica* Olivier [12–16]
Populus laurifolia Ledeb. [= *Populus pilosa* Rehder] [2–4, 6, 7, 10, 13, 14]
Populus simonii Carrière [9]
Populus suaveolens Fisch. [1, 2, 3, 4]
Populus tremula L. [1–5, 7–9, 11]
Salix abscondita Laksch. [1, 2, 4, 5, 13]
Salix alata Kar. [6, 7]
Salix arctica Pall. [1, 3, 6, 7]
Salix bebbiana Sarg. [1–10, 12, 13]
Salix berberifolia Pall. [1, 2, 3, 6, 7, 13]
Salix brachypoda (Trautv. & C.A.Mey.) Kom. [2, 4, 5, 9]
Salix caesia Vill. [1–4, 6, 7, 10, 14]
Salix divaricata Pall. [1–4, 6, 7, 13]
Salix glauca L. [1, 2, 3, 6, 7, 13]
Salix gmelinii Pall. [= *Salix dasyclados* Wimmer] [2, 4, 6, 7, 8, 10]
Salix gordejewii Y.L.Chang & Skvortsov [5, 8, 9]
Salix hastata L. [1, 6, 7, 10, 13]
Salix jensseensis (F.Schmidt) Flod. [1, 6, 7]
Salix kochiana Trautv. [1–5, 7, 10]
Salix ledebouriana Trautv. [1–4, 6, 7, 9–15]
Salix microstachya Turcz. [2–6, 8, 9, 10]
Salix miyabeana Seemen [1–5, 8, 9]
Salix myrtilloides L. [1, 2, 3]
SE *Salix nasarovii* A.K.Skvortsov [1]
Salix nipponica Franch. & Sav. [9]
Salix nummularia Andersson [2, 3, 6, 7]
Salix polaris Wahlenb. [1]
Salix pseudopentandra (Flod.) Flod. [= *Salix pentandra* var. *intermedia* Nakai]
[1–10, 12, 13]
Salix pyrolifolia Ledeb. [1–4, 6, 7, 10]
Salix rectijulis Ledeb. [1, 2, 3, 6, 7]
Salix recurvigemmata A.K.Skvortsov [= *Salix recurvigemmis* A.K.Skvortsov]
[1, 3, 6]
Salix reticulata L. [1, 3, 6, 7]
Salix rhamnifolia Pall. [1–6, 9]
Salix rorida Laksch. [2, 3, 4, 5, 9]
Salix rosmarinifolia L. [1–4, 6, 10, 14]
Salix sajanensis Nasarow [1, 6, 7]

- Salix saposhnikovii* A.K.Skvortsov [1, 3, 6, 7]
Salix saxatilis Turcz. [1, 2, 3]
Salix schwerinii E.L.Wolf [2, 3, 4, 5, 9]
Salix taraikensis Kimura [1–5, 7, 13]
Salix tenuijulis Ledeb. [3, 7, 14, 15]
Salix triandra L. [1, 3, 4, 14]
Salix turanica Nasarow [6, 7, 10, 14]
Salix turczaninowii Laksch. [1, 2, 6, 7]
Salix udensis Trautv. & C.A.Mey. [9]
Salix vestita Pursh [1, 3, 6, 7]
Salix viminalis L. [3, 6, 7, 10, 11, 14]
- 99. Santalaceae** R.Br. (1 genus and 6 species)
- Thesium chinense* Turcz. [9]
Thesium longifolium Turcz. [2, 3, 4]
Thesium refractum C.A.Mey. [1–10, 13]
Thesium repens Ledeb. [1, 2, 3, 4]
 SE *Thesium saxatile* Turcz. [1, 3–6, 8–10]
 SE *Thesium tuvense* Krasnob. [5, 10]
- 100. Saxifragaceae** Juss. (5 genera and 21 taxa)
- Bergenia crassifolia* (L.) Fritsch [1, 2, 3, 4, 7]
Chrysosplenium nudicaule Bunge [6]
 SE *Chrysosplenium peltatum* Turcz. [1, 3]
 SE *Chrysosplenium sedakowii* Turcz. [2, 3, 8]
Chrysosplenium serreanum Hand.-Mazz.
 [= *Chrysosplenium alternifolium* subsp. *sibiricum* (Ser.) Hultén] [1, 2, 4]
Micranthes davurica (Willd.) Small [≡ *Saxifraga davurica* Willd.] [2]
Micranthes foliolosa (R.Br.) Gornall [≡ *Saxifraga foliolosa* R.Br.] [1, 2]
Micranthes hieraciifolia (Waldst. & Kit.) Haw.
 [≡ *Saxifraga hieraciifolia* Waldst. & Kit.] [1, 2, 3, 6, 7]
Micranthes melaleuca (Fisch.) Losinsk.
 [≡ *Saxifraga melaleuca* Fisch.] [1, 2, 6, 7]
Micranthes nelsoniana subsp. *aestivalis* (Fisch. & C.A.Mey.) Elven &
 D.F.Murray [≡ *Saxifraga aestivalis* Fisch. & C.A.Mey.] [1, 2, 3, 6]
Micranthes nivalis (L.) Small [≡ *Saxifraga nivalis* L.] [1]
Mitella nuda L. [1, 2, 4]
Saxifraga bronchialis L. [= *Saxifraga caulescens* Sipliv.,
 = *Saxifraga spinulosa* Adams] [2, 3, 4, 8]
Saxifraga cernua L. [1–3, 6–9, 13]
Saxifraga hirculus L. [1–7, 13, 14]
Saxifraga macrocalyx Tolm. [= *Saxifraga flagellaris* Willd.] [1, 3, 6, 7, 13, 14]

- Saxifraga oppositifolia* L. subsp. *oppositifolia* [= *Saxifraga asiatica* Hayek] [1, 3, 6, 7]
Saxifraga setigera Pursh [1, 2, 3, 6, 7, 13]
Saxifraga sibirica L. [1–3, 6–8, 10, 13, 14]
Saxifraga terekensis Bunge [1, 3, 6, 7]

101. Scheuchzeriaceae F.Rudolphi (1 genus and 1 species)

- Scheuchzeria palustris* L. [2]

102. Scrophulariaceae Juss. (3 genera and 6 species)

- Limosella aquatica* L. [1–4, 6, 7, 9–11, 13, 14]
Scrophularia altaica Murray [1, 3, 6, 7]
Scrophularia canescens Bong. [= *Scrophularia hilbigii* Jäger] [13, 14]
Scrophularia incisa Weinm. [2–4, 6–15]
Scrophularia umbrosa Dumort. [10]
Verbascum thapsus L. [4]

103. Solanaceae Juss. (4 genera and 9 taxa)

- Hyoscyamus niger* L. [2–5, 7–10, 12, 13]
Hyoscyamus pusillus L. [6, 7, 10, 14, 15]
Lycium chinense var. *potaninii* (Pojark.) A.M.Lu [≡ *Lycium potaninii* Pojark.] [16]
Lycium ruthenicum Murray [10, 11, 13–16]
Lycium truncatum Y.C.Wang [10, 12, 15, 16]
E *Physochlaina albiflora* Grubov [3, 4]
Physochlaina physaloides (L.) G.Don [1, 3–9, 11–13]
Solanum kitagawae Schönb.-Tem. [3, 6, 9, 14]
Solanum septemlobum Bunge [4, 8, 9, 12]

104. Tamaricaceae Link (3 genera and 13 taxa)

- Myricaria bracteata* Royle [1, 7, 11–14, 16]
Myricaria longifolia Ehrenb. [2–4, 6, 7, 11]
Reaumuria soongarica Maxim. [3, 6–16]
Tamarix arceuthoides Bunge [10, 14, 15]
Tamarix elongata Ledeb. [11, 14]
Tamarix gracilis Willd. [13, 15, 16]
Tamarix hispida Willd. [13]
Tamarix × *karelinii* Bunge [10, 14–16]
Tamarix kasahorum Gorschk. [15, 16]
Tamarix laxa Willd. [11, 12, 15]
Tamarix leptostachya Bunge [10, 13–16]
Tamarix ramosissima Ledeb. [10, 12–16]
Tamarix smyrnensis Bunge [12, 14, 16]

105. Thymelaeaceae Juss. (2 genera and 3 species)

Diarthron altaicum (Thiéb.-Bern.) Kit Tan [= *Stellera altaica* Thiéb.-Bern.]

[7]

Diarthron linifolium Turcz.

[2, 3, 4, 5]

Stellera chamaejasme L.

[2, 3, 4, 5, 9]

106. Tofieldiaceae Takht. (1 genus and 1 species)

Tofieldia coccinea Richardson

[1]

107. Typhaceae Juss. (2 genera and 12 species)

Sparganium emersum Rehmann

[3, 5, 6, 7, 9, 10]

Sparganium glomeratum (Laest.) Beurl.

[2, 4]

Sparganium natans L.

[7, 10]

Sparganium stoloniferum (Graebn.) Buch.-Ham.

[1, 4, 8, 9, 10]

Typha angustifolia L.

[1, 10]

Typha domingensis Pers.

[4, 10]

Typha joannis Mavrodiev

[9]

Typha latifolia L.

[2, 5]

Typha laxmannii Lepech.

[3–6, 8, 9, 11]

Typha minima Funck

[9, 10]

Typha orientalis C.Presl

[5]

Typha tzvelevii Mavrodiev

[4]

108. Ulmaceae Mirb. (1 genus and 3 taxa)

Ulmus davidiana var. *japonica* (Rehder) Nakai

[4, 5, 8]

Ulmus macrocarpa Hance

[2, 4, 5, 8, 9, 12]

Ulmus pumila L.

[2–5, 7–9, 11, 13, 16]

109. Urticaceae Juss. (2 genera and 4 taxa)

Parietaria debilis G.Forst.

[2–4, 6, 9, 10]

Urtica angustifolia Fisch.

[1–5, 7, 9, 10]

Urtica cannabina L.

[2–10, 12–14]

Urtica dioica L. subsp. *sondenii* (Simm.) Hyl. [= *Urtica sondenii* (Simm.) Avror]

[7, 14]

110. Violaceae Batsch. (1 genus and 27 taxa)

Note: Recently, Espu (2020) critically revised the genus *Viola* L in the Russian Far East and adjacent territories. In this study, accepted species and nomenclature mostly follow Espu (2020).

Viola acuminata Ledeb.

[4, 5, 9]

SE *Viola alexandrowiana* (W.Becker) Juz.

[4]

Viola altaica Ker Gawl.

[3, 7]

	<i>Viola arvensis</i> Murray	[4]
	<i>Viola biflora</i> L.	[1, 2, 3, 7]
	<i>Viola brachyceras</i> Turcz.	[2]
	<i>Viola collina</i> Besser	[5, 7]
	<i>Viola dactyloides</i> Schult.	[2, 3, 4, 5, 6]
	<i>Viola disiuncta</i> W.Becker	[7]
	<i>Viola dissecta</i> Ledeb.	[1–5, 7, 9, 13]
	<i>Viola epipsiloides</i> Á.Löve & D.Löve	[1, 2]
	<i>Viola gmeliniana</i> Schult.	[1, 2, 3, 4, 5]
	<i>Viola incisa</i> Turcz.	[2, 4]
SE	<i>Viola ircutiana</i> Turcz.	[2]
	<i>Viola macroceras</i> Bunge	[7]
	<i>Viola mauritii</i> Teplouchow	[1, 4, 5, 7, 9, 13]
	<i>Viola mirabilis</i> L.	[2, 5]
	<i>Viola nemoralis</i> Kuetz.	[2]
	<i>Viola patrinii</i> Ging.	[2, 5, 7, 9, 10, 14]
	<i>Viola rudolfi</i> Vl.V.Nikitin	[4, 5]
	<i>Viola rupestris</i> F.W.Schmidt	[2, 3, 4, 6, 7]
	<i>Viola sacchalinensis</i> H.Boissieu	[2, 4, 5]
	<i>Viola</i> × <i>schauloi</i> Vl.V.Nikitin	[2, 4]
	<i>Viola selkirkii</i> Pursh	[2]
	<i>Viola tenuicornis</i> subsp. <i>trichosepala</i> W.Becker	[4]
	<i>Viola uniflora</i> L.	[1, 2, 3, 4, 7]
	<i>Viola variegata</i> Fisch.	[1, 4, 5]

111. **Zygophyllaceae** R.Br. (2 genera and 13 taxa)

	<i>Tribulus terrestris</i> L.	[3, 5–16]
	<i>Zygophyllum brachypterum</i> Kar. & Kir.	[6, 10]
	<i>Zygophyllum gobicum</i> Maxim.	[14, 15]
	<i>Zygophyllum kaschgaricum</i> Boriss.	
	[≡ <i>Sarcozygium kaschgaricum</i> (Boriss.) Y.X.Liou]	[12–16]
	<i>Zygophyllum macropterum</i> C.A.Mey.	
	[= <i>Zygophyllum pinnatum</i> Cham. & Schltdl.]	[7, 14]
SE	<i>Zygophyllum melongena</i> Bunge	[3, 6, 7, 10, 11, 13, 14]
SE	<i>Zygophyllum mucronatum</i> Maxim.	[15, 16]
E	<i>Zygophyllum neglectum</i> Grubov	[10, 13, 14, 16]
	<i>Zygophyllum potaninii</i> Maxim.	[6, 7, 12–16]
	<i>Zygophyllum pterocarpum</i> Bunge	[6, 7, 10–16]
	<i>Zygophyllum rosowii</i> var. <i>latifolium</i> (Schrenk) Popov	[13–16]
	<i>Zygophyllum rosowii</i> Bunge var. <i>rosowii</i>	[3, 7, 8, 10–16]
	<i>Zygophyllum xanthoxylon</i> (Bunge) Maxim.	[7, 8, 10–16]

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Supplementary material I

Appendix 1

Authors: Baasanmunkh et al.

Data type: Checklist

Explanation note: List of new species (marked by red color) and new records to the flora of Mongolia, since Urgamal et al (2014).

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Link: <https://doi.org/10.3897/phytokeys.192.79702.suppl1>

Supplementary material 2

Appendix 2

Authors: Baasanmunkh et al.

Data type: Checklist

Explanation note: Changes of accepted names compared with Urgamal et al (2014).

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